

COMPILED BY
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SERVICE
VALVE
and
SEMICONDUCTOR
EQUIVALENTS

AN R S G B PUBLICATION



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SIXTH EDITION

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SERVICE VALVE AND SEMICONDUCTOR EQUIVALENTS

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FOREWORD

It is hoped that this booklet will meet the need for a source of information on the commercial equivalents and the manufacturers of the numerous CV coded valves, cathode ray tubes and semiconductor devices now available to the radio amateur.

The opportunity has been taken in this Edition to correct a few errors which appeared in previous Editions and to add a large number of new types which have appeared recently.

A revised system of coding the valve classification has been introduced which it is believed will be found simpler to use and increase the usefulness of the booklet. Certain of the older types have been added to the lists to make the information more complete but valve types which are unlikely to be used by the average amateur have been omitted.

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CONTENTS

	<i>Page</i>		<i>Page</i>
Valve, Cathode Ray Tube and Device Manufacturers	2	CV and Commercial Equivalents of Army, Navy and R.A.F. Types	51
Valve, Tube and Device Coding System	3	British Army Valves	53
Commercial Equivalents to CV Valves, Cathode Ray Tubes and Semiconductor Devices	4	Royal Navy Valves	54
		Royal Air Force Valves	56
		U.S. Signal Corps Valves	58
		G.P.O.-C.V. References	60

Service Valve Equivalents

VALVE, TUBE AND DEVICE MANUFACTURERS

AEI	Thorn-AEI Radio Valves and Tubes Ltd., 7 Soho Square, London, W.C.2.
AEI-BTH	AEI (Rugby) Ltd., Rugby, Warwickshire.
Am.	American Manufacture.
BEL	Thorn-AEI Radio Valves and Tubes Ltd., Brimar Commercial Division, 7 Soho Square, London, W.C.2.
Cin.	Cinema-Television Ltd., Worsley Bridge Road, Lower Sydenham, London, S.E.26.
Cos.	Cossor Valve Co. Ltd., The Pinnacles, Harlow, Essex.
EEV.	English Electric Valve Co. Ltd., Waterhouse Lane, Chelmsford, Essex.
EMI	EMI Electronics Ltd., Valve Division, Ruislip, Middlesex.
Eric.	Ericsson Telephones Ltd., Tube Technical Services Dept., Beeston, Nottingham.
ETL.	Electronic Tubes Ltd., Suffolk Works, 313 London Road, High Wycombe, Bucks. (ref. to Mullard).
Fer.	Ferranti Ltd., Electronics Dept. Hollinwood, Lancs.
GEC	Associated Semiconductor Manufacturers Ltd., Mullard House, Torrington Place, London, W.C.1.
Hiv.	Hivac Ltd., Stonefield Way, Victoria Road, Ruislip, Middlesex.
MOV.	M-O Valve Co. Ltd., Brook Green Works, Hammersmith, London, W.6.
Mul.	Valves—Mullard Ltd., Mullard House, Torrington Place, London, W.C.1. <i>Semiconductors</i> —Associated Semiconductor Manufacturers Ltd., Mullard House, Torrington Place, London, W.C.1.

Service Valve Equivalents

Plessey	Semiconductors Ltd., Cheney Manor, Swindon, Wiltshire.
Pye	Newmarket Transistor Co. Ltd., Exning Road, Newmarket, Suffolk.
STC	<i>Valves</i> —Standard Telephones & Cables Ltd., Valves Sales Dept., Brixham Road, Paignton, Devon <i>Semiconductors</i> —Standard Telephones & Cables Ltd., Rectifier Division, Transistors, Edinburgh Way, Footscray, Harlow, Essex. Sidcup, Kent.
Tung.	British Tungsram Radio Works Ltd., West Road, London, N.17.
Tex.	Texas Instruments Ltd., Manton Road, Bedford.

VALVE, TUBE AND DEVICE CODING SYSTEM

In order to assist in identifying a particular valve, tube or device, a coding system has been used which provides information on its structure or function. The coding system consists of a letter or a group of letters, e.g. T—Triode, DDT—Double Diode Triode, R—Half-wave Rectifier, RR—Full-wave Rectifier. Semiconductor devices are given titles as follows: SD—Diode, ST—Transistor, SZ—Zener diode, SZ Rf.—Zener Reference diode, etc. Details of the coding system are given below:—

B	Barretter	Rg	Regulator
C	Counter Tube	S	Strotron
CC	Cold Cathode Valve	SD	Crystal Diode
CR	Cathode Ray Tube	SDN	Tunnel Diode
D	Diode	SP	Transistor Photo Cell
GM	G-M Tube	SR	Power Rectifier Diode
H	Heptode	ST	Transistor
L	Lamp	SVC	Variable Capacitance Diode
LI	Letter or Number indicator	Sw	Switch
LZ	Lighting Arrester	SZ	Zener Diode
ND	Noise Diode	T	Triode
NI	Neon Indicator	Th	Thyratron
O	Octode	TI	Tuning Indicator
P	Pentode	TS	Thermal Delay Switch
PC	Photo-cell	TW	Travelling Wave Tube
PM	Photo-multiplier	VI	Voltage Indicator
Q	Tetrode	VM	Velocity Modulated Valve
R	Rectifier	VS	Gas filled Stabilizer
Rf	Reference	X	Hexode

COMMERCIAL EQUIVALENTS TO CV VALVES, CATHODE RAY TUBES and SEMICONDUCTOR DEVICES

Service Valve Equivalents

CV No.	Commercial Equivalent and Manufacturer	Type of Valve or Tube	CV No.	Commercial Equivalent and Manufacturer	Type of Valve or Tube
5	AH221 (EEV); GU21 (MOV); RG4-1250 (Mul.); ESU200 (AEI) ...	R	88	3A/148J (STC) ...	T
6	DET20 (MOV) ...	T	90	EI368 (MOV) ...	T
9	AL60 (Mul.) ...	P	101	(AEI) ...	SD
15	EI266 (MOV) ...	T	102	(AEI) ...	SD
16	3A/146J (STC) ...	T	103	(AEI) ...	SD
18	DET19 (MOV); 4074A (STC); RK34 (Am.); 2C34 (Am.) ...	T	110	CV1068 STV 280/40 (EEV, MOV) ...	VS
21	VP41 ...	T	111	CV253 ...	P
24	HL41 (MOV) ...	P	118	SP61 (AEI) CV1065 ...	T
25	ES85 (AEI); 4242A (STC); 242C (Am.); UE311 (Am.); 211 (Am.) ...	T	122	EI336 (MOV) ...	T
26	813 (Am.); STC; QY2-100 (Mul.); CI43 (EEV) ...	P	123	EI330 (MOV) ...	T
31	U20 (MOV); FW4-800 (Mul.) ...	T	124	5B/250A (STC); QV05-25 (Mul.); 807 (Cos., Am.) ...	Q
32	ESU866 (AEI); RG3-250A (Mul.); 2V/400A (STC); 866A (Am.); GUI2 (MOV); AH201 (EEV) 3828 ...	RR	127	3B/401J (STC) ...	T
45	SI30P (MOV; Cos.); GTR120A (Eric.) ...	R	131	9D6 (BEL); EF92 (Mul.); W77 (MOV); V884 ...	P
49	3B/501A (STC) ...	VS	132	(AEI) CV4015 ...	X
51	Y65 (MOV) ...	T	133	V882 (AEI) ...	R
52	EI231 (MOV) ...	T	135	L77 (MOV); 6C4 (BEL, Am.); EC90 (Mul.); V741 (AEI) CV4058 ...	T
53	3A/146J (STC) ...	T	136	EY91 (Mul.) ...	R
58	EI273 (MOV)—CV258 ...	T	137	EL91 (Mul.); 6AM5 (BEL); N77 (MOV); V887 (AEI); CV4063 ...	P
62	EI046 (MOV) ...	D	138	EAC91 (Mul.); CV4059 ...	DT
63	EI323 (MOV) ...	T	139	8D3, 6AM6 (BEL); EF91 (Mul.); Z77 (MOV); 6F12 (AEI); HP6 (Cos.); CV4014 ...	P
65	Pen25 (AEI) ...	T	140	See CV417 ...	T
66	RL37 (Mul.); EC54 (Mul.) ...	P	152	6AL5 (BEL); EB91 (Mul.); D77 (MOV); 6D2 (AEI); DD6 (Cos.); CV4027, 4007 ...	DD
71	"OSGLIM" (GEC) ...	VS	161	Similar to CV5 ...	R
72	A1120 (AEI) ...	Q	164	CG3E (AEI-BTH) ...	PC
73	11E3 (AEI) ...	Q	165	CS36A (AEI-BTH) ...	SD
82	3A/147J (STC) ...	T	170	12SF7GT (Am.) ...	SD
87	KRN2 (EMI) ...	VM			DP

Service Valve Equivalents

CV No.	Commercial Equivalent and Manufacturer	Type of Valve or Tube	CV No.	Commercial Equivalent and Manufacturer	Type of Valve or Tube
171	W21 (MOV); 210VPT (Cos.)	P	258	CV58 Mod. (MOV)	D
172	EI468 (MOV)	ND	261	SU44 (Cos.); 2T/27OK (STC); R10	R
173	EF55 (Mul.)	P	264	API188 (MOV)	NI
175	XSG1.5 (Hiv.)	Q	273	DET22 (MOV); TDO3-10 (Mul.); 5861 (Am.);	T
176	XPI.5 (Hiv.); CV1721	T		CV2395	R
181	ECC31 (Mul.)	TT	277	I9G3 (AEI)	TT
185	PM202 (Mul.); CV1680	T	278	B65 (MOV); CV1988	CR
187	U19 (MOV)	R	279	701A (MOV); CV964	TX
188	7475 (Mul.); QS92/10 (EEV); (MOV) GDI00A	VS	281	X61M (MOV)	DD
190	(Eric.); CV1070	TS	283	6AL5, 5726 (BEL., Am.); CV140, CV4007	VS
200	DLS10 (AEI) now Z530 331	T	284	QS75/20 (MOV, EEV); 75B1 (Mul.); GTR75M	PC
201	MZ2-200 (Mul.)	Q	285	(Eric.)	VS
207	V630 (AEI)	P	286	VA35	VS
216	AC/P4 (AEI); CV1198	VS		QS95/10 (MOV, EEV); V987B (AEI); GTR95M/S	VS
220	VR150-30 (STC, Am.); QS150/40 (MOV, EEV);	SS	287	(Eric.); 95A1 (Mul.)	VS
222	150C3 (Mul.); OD3 (Am.); GDI50A/S (Eric.)	Q	288	150B3 (Mul.); QS150/15 (MOV, EEV)	SD
226	NSPI (Fer.); 631 PI (Am.)	NI	291	ACT23 (MOV)	TX
229	Early CV415 (MOV)	SD	302	(AEI-BTH)	P
231	EI336 (MOV)	T	303	EF22 (Mul.)	P
235	19128 (RCA)	R	304	EL22 (Mul.)	Q
241	U19 (MOV); CV187	SD	309	CV1510 Mod; QV04-7 (Mul.)	T
242	CMG25 (MOV); GS18 (Cin.)	PC	315	DET12 (MOV); 4304 (STC); 834 (Am.); CV1062	LZ
243	4045A (STC)	Q	326	15B (AEI)	Q
244	4046A (STC); MS Pen (Cos.)	P	327	EF52 (Mul.)	P
248	GS16 (Cin.)	PC	329	6F33 (AEI); CV2209	PM
249	3A/107A (STC)	T	337	27M1 (AEI); 931A (Am.); CV2696	RR
250	CMG25 (MOV); GS16 (Cin.)	PC	338	GXU 52 (MOV)	TS
253	CS3A (AEI-BTH)	SD	342	SH342 (STC) now Z530 333	DP
256	GTK95M/S (Eric.)	VS	343	6F32 (AEI)	T
257	ACT22 (MOV)	T	344	EI323 (MOV)	Q
			345	I2E1 (AEI)	Q

Service Valve Equivalents

CV No.	Commercial Equivalent and Manufacturer	Type of Valve or Tube	CV No.	Commercial Equivalent and Manufacturer	Type of Valve or Tube
346	EZ22 (Mul.); 7Z4 (Am.)	RR	418	MX2; CV2222	CR
347	EBC21 (Mul.)	DDT	419	DET18 (MOV); CV668	T
350	E1368 (MOV)	T	422	QS108/45 (MOV, EEV)	VS
352	EBC 33 (Mul.)	DDT	423	2SSN7GT (Am., STC); 13DI (BEL)	TT
354	DET23 (MOV); TDO3-5 (Mul.)	T	424	QQVO6-40 (Mul.); TT25 (MOV); CV2797	QQ
358	EF37A (Mul.); 5A/157D (BEL); OM5B (Cos.)	P	425	CGIC (AEI-BTH); GEX44, GEX45/1 (GEC); OA74 (Mul.)	SD
364		SD			
366	6AG7 (Am.)	P	426	EY51 (Mul.); R12 (BEL); U.43 (MOV)	R
367	IN21B (Am.); CS2A (AEI-BTH); CS37A, CV3923	SD	428	5B/251M, 5B/254M (STC)	Q
371	SU45 (Cos.); 19G6 (AEI); CV4057	R	430	29C1 (AEI)	D
375	EA50 (Mul.); CV1092	D	431	85A1 (Mul.)	VS
378	53KU (Cos.); GZ37 (Mul.)	RR	432	ME1400 (Mul.)	P
380	EF54 (Mul.); CV1136	P	433	BIC/IE (STC)	B
384	DET5 (MOV); CV1223	T	434	OS75/60 (EEV, MOV); CV4030	VS
385	DL71 (Mul.); CK502AX (Am.)	P	436	ACT75 (MOV)	T
386	DF70 (Mul.); CK505AX (Am.); CV443	P	437	KT67 (MOV)	P
387	DL72 (Mul.); CK506AX (Am.)	P	438	GI20/1B (STC); CV5880	VS
389	401A (MOV)	CR	442	GEX33, GEX35 (GEC); OA73 (Mul.)	SD
391	5B/252M (STC); LS650 (STC)	Q	443	DF70 (Mul.); CK505AX (Am.)	P
394	EM34 (Mul.)	TI	444	MZ1-75 (Mul.)	T
395	QS150/45 (MOV, EEV); BS54 (AEI)	VS	448	GEX54, GEX55 (GEC); OA71 (Mul.)	SD
397	DET 24 (MOV); TDO4-20 (Mul.)	T	449	85A2 (Mul.); QS83/3 (MOV); QS1209 (EEV); CV4048	VS
399	MH4 (MOV); CV1037	T			
405	CMG25 (MOV); CE25 (Am.); 55CG (Mul.)	PC	450	EL38 (Mul.); 6CN6 (Am.)	P
408	A1714 (MOV)	T	452	6AT6 (BEL, Am.); DH77 (MOV); EB90 (Mul.)	DDT
409	A1820 (MOV)	Q	453	6BE6 (BEL, Am.); X727 (MOV); EK90 (Mul.); CV4012	H
410	K3A (Fer.)	Th			
412	A800 (MOV)	D	454	6BA6 (BEL, Am.); EF93 (Mul.); W727 (MOV); CV4009	P
413	GI50/2D (STC)	Th			
415	TT15 (MOV); 44A/160M (STC); CV4046...	QQ	455	I2AT7 (BEL, Am.); ECC81 (Mul.); B309 (MOV); CV4024	TT
416	6F17 (AEI); CV4040	P			
417	EC91 (Mul.); 6L34 (AEI); CV4070	T	465	EF72 (Mul.)	P

Service Valve Equivalents

CV No.	Commercial Equivalent and Manufacturer	Type of Valve or Tube	CV No.	Commercial Equivalent and Manufacturer	Type of Valve or Tube
466	EF73 (Mul.) ...	P	526	12A6GT (Am.)	P
467	EF70 (Mul.) ...	P	527	DA60 (MOV); CV1206	T
468	EC70 (Mul.) ...	T	529	12AH7GT (Am.)	T
469	EA76 (Mul.) ...	D	530	GTIE (MOV)	Th
471	EL70 (Mul.) ...	P	531	12C8 (Am.); 12C8GT (BEL, Am.); CV3827	DDT
472	EF74 (Mul.) ...	P	534	12J5 (Am.)	T
473	EY70 (Mul.) ...	R	535	12J5GT (Am.)	T
474	EN71 (Mul.) ...	T	537	12SA7 (Am.)	H
475	EF71 (Mul.) ...	P	538	12SA7GT (Am.)	H
476	EF74 (Mul.) ...	P	540	12SC7 (Am.)	T
477	EF731 (Mul.) ...	P	543	12SK7 (Am.)	T
483	CV309 Mod.; Q404-7A (Mul.); M8157 (Mu.)	P	544	12SK7GT (Am.)	P
484	354 (BEL, Am.); DL92 (Mul.); CV820	Q	546	12SQ7 (Am.)	P
491	12AU7 (BEL, Am.); ECC82 (Mul.); B329 (MOV); CV4003	P	547	12SQ7GT (Am.)	DDT
492	12AX7 (BEL, Am.); ECC83 (Mul.); B339 (MOV); CV4004	T	548	LP2 (MOV); CV1166	DDT
493	6X4 (BEL, Am.); U78 (MOV); EZ90 (Mul.); CV4005	T	549	25A6 (Am.)	T
495	ME1401 (Mul.); VX32 (Am.); S802 (Am.); CV2269	RR	550	25A6GT (Am.)	P
499	5B/253M (STC)	RR	551	25L6G (Am.)	P
500	6T7G (Am.)	RR	552	25L6 (Am.)	Q
501	EBF32 (Mul.)	T	553	25L6GT (BEL, Am.)	Q
504	6U5 (Am.); 6U5/6G5 (BEL)	Q	554	D63 (MOV); CV1301	Q
509	6V6G (BEL, Am.)	DDT	555	25Z5 (Am.)	DD
510	6V6 (Am.)	DDQ	556	QP25 (AEI); CV1342	RR
511	6V6GT (BEL, Am.)	T	557	D42 (MOV); CV1302	PP
512	6W7G (Am.); CV1937	Q	558	25Z6 (Am.)	R
515	6Y6G (Am.)	Q	559	25Z6GT (Am.)	RR
517	OZ4A (Am.)	Q	561	35L6 (Am.)	RR
524	TT12 (MOV)	P	562	35L6GT (BEL, Am.)	P
525	12A6 (Am.)	RR	563	DA30 (MOV); CV1178	T
		P	564	35Z3 (Am.)	R
		Q	565	35Z3GT (Am.)	R
		P	567	35Z5 (Am.)	R

Service Valve Equivalents

CV No.	Commercial Equivalent and Manufacturer	Type of Valve or Tube	CV No.	Commercial Equivalent and Manufacturer	Type of Valve or Tube
568	35Z5GT (Am.)	R	608	41 (Am.)	P
569	6SL7GT (BEL, Am.); ECC35 (Mul.); CV1985	TT	609	42 (Am.)	P
571	50L6GT (BEL, Am.)	P	610	45 (Am.)	T
572	6X5G (BEL, Am.)	RR	611	56 (Am.)	T
573	6X5 (Am.)	RR	612	57 (Am.); CV1704	P
574	6X5GT (BEL, Am.); EZ35 (Mul.)	RR	613	58 (Am.); CV1705	DDT
575	5U4G (BEL, Am.); U52 (MOV)	RR	614	75 (Am.)	DDT
578	6A8G (BEL, Am.); X63 (MOV); CV3825	H	615	76 (Am.)	P
579	6A8 (Am.)	H	616	77 (Am.)	RR
580	6A8GT (BEL, Am.)	H	617	80 (Am.); CV1708	RR
581	6C5G (Am.)	T	618	83 (Am.); STC	RR
582	6C5 (Am.)	T	619	84/6Z4 (Am.)	RR
583	6C5GT (Am.)	T	620	211 (Am.); CV2576	T
585	6C6 (BEL, Am.)	P	621	801 (Am.)	P
586	EL37 (Mul.)	P	622	802 (Am.)	P
587	6Q7G (BEL, Am.); DH63 (MOV)	DDT	623	803 (Am.); BK28A (Am.); CV1372	P
588	6Q7 (Am.)	DDT	624	804 (Am.)	P
589	6O7GT (BEL, Am.)	DDT	625	805 (Am.); RIS57 (Am.)	T
590	6S17G (Am.)	P	626	808 (Am.)	T
591	6S17, 6S17Y (Am.); CV866	P	627	810 (Am.)	T
592	6S17GT (Am.)	P	628	811 (Am.)	T
593	GZ32 (Mul.)	RR	629	814, RK47 (Am.)	Q
594	6SH7 (Am.)	P	630	826 (Am.)	P
595	6SH7GT (Am.)	P	631	828 (STC, Am.)	Q
597	2X2, 2X2A, 879, 2B21 (Am.)	P	632	829, 829B (Am.); C144 (EEV); CV2666	Q
599	1851 (Am.)	R	633	829A (Am.); CV3599	Q
600	5CP1 (Am.); DGI3-2 (Mul.); CV2191	CR	634	832 (Am.); C180 (EEV); CV1088	Q
601	5BP1 (Am.); CV 5583	CR	636	836 (Am.); EE836	Q
602	3AP1 (Am.); 906P1 (Am.)	CR	637	837, RK44 (Am.)	R
603	10 (Am.); 2C23 (Am.)	T	638	838, HFI30, RK58 (Am.)	P
604	30 (Am.)	T	639	843 (Am.)	T
606	37 (Am.)	T	640	860 (Am.)	Q

Service Valve Equivalents

CV No.	Commercial Equivalent and Manufacturer	Type of Valve or Tube	CV No.	Commercial Equivalent and Manufacturer	Type of Valve or Tube
642	872, 872A (Am.); 40648 (STC); AH217 (EEV); ESU872 (AEL); 4B32 (MOV); CV1449	R	690	RK48A (Am.)	P
643	847 (Am.)	VS	692	OZ4 (Am.)	RR
647	884, 6Q5G (Am.); CV1815	Th	694	12SG7 (Am.)	P
648	885, 2B4 (Am.)	Th	697	12SJ7 (Am.)	P
649	956 (Am.)	P	698	12SJ7GT (Am.)	DDT
650	938 (Am.)	T	700	12SR7 (Am.)	T
651	991, NE16, NE18 (Am.)	VS	702	830B (Am.)	TX
652	1603 (Am.); CV1710	P	703	12K8 (Am.)	P
653	1611 (Am.)	P	704	RK20A (Am.); CV624	P
654	1612 (Am.)	H	705	ID5GP (Am.)	P
655	1613 (Am.)	P	706	6U7G (Am.)	P
656	1616 (Am.)	R	707	HK54, 4C25 (Am.)	T
657	1620 (Am.); CV1937	P	709	72, RK72 (Am.); CV812	R
658	1622 (Am.); CV1947	P	710	368 (Am.) A	T
659	1625 (Am.)	Q	711	32 (Am.)	Q
660	6AC7, 1852 (Am.)	P	712	38 (Am.)	P
661	1853, 6AB7 (Am.); CV1873	P	715	6F5GT (Am.); CV190	T
662	8012, 8012A (Am.)	P	717	5R4GY (Am., BEL) (MOV); CV4026	RR
663	8025 (Am.); CV3915	T	720	723A (Am.)	VM
664	9002 (Am.)	T	723	1619 (Am.)	P
665	9003 (Am.)	T	724	816 (Am.)	R
666	9004 (Am.)	P	726	35Z3LT (Am.)	R
667	9005 (Am.)	P	727	IN21, IN21B (Am.); CV367	SD
668	35T (Am.); DET18 (MOV)	D	728	IP5GT (Am.)	P
670	HK645 (Am.)	T	729	5V4G (Am., BEL, Fer.)	RR
683	316A (Am.)	T	730	6A3 (Am.)	T
685	VR150-30 (Am.)	VS	731	6F6GT (Am.)	P
686	OC3 (Am., STC); VR105-30 (Am., STC); QS1206 (EEV) (MOV); 108CI (Mul.)	VS	735	845 (Am.)	T
687	446B, 2C40 (Am.); CV2643	T	736	905 (Am.)	CR
688	464A, 2C43 (Am.)	T	737	906 (Am.); CV602	CR
			738	953 (Am.)	D
			743	VGI1 (Am.); N2 (Am.)	NI

Service Valve Equivalents

CV No.	Commercial Equivalent and Manufacturer	Type of Valve or Tube	CV No.	Commercial Equivalent and Manufacturer	Type of Valve or Tube
744	HK24 (Am.); CV941	NI	784	ISS (Am., BEL); IFD9 (AEI); ZDI7 (MOV); DAF91 (Mul.)	DP
745	6AC7/6AJ7 (Am.); CV849	T	785	IT4 (Am., BEL); IF3 (AEI); W17 (MOV); DF91 (Mul.)	P
749	IN23A (Am.)	SD	787	2A7 (Am.)	H
751	HY75 (Am.)	T	788	832A (Am.); QQVO4-15 (Mul.); C180 (EEV)	QQ
753	IA3 (Am.); DA90 (Mul.); ID13 (AEI)	D	789	3C24, HK24G (Am.); B1109 (EEV)	T
755	IA5G (Am., BEL)	P	790	2AP1, 1841PI (Am.)	CR
756	IA5GT (Am., BEL)	P	792	2C22, 7193 (Am.)	T
759	IB5/25S (Am.)	DDT	796	2DI3C CV1300	DD
760	IB7GT (Am.)	H	797	2D21 (Am., STC); EN91 (Mul.); E1955 (MOV); 20A3 (AEI); 5757 (Am.); CV4018	Th
764	ID5 (BEL); 40SUA (Cos.); U4020 (AEI); V20 (Tung.); CV1267	R	802	2C26; 2C26A (Am.); CV1759	T
765	ID7G (Am.)	H	807	DL93 (Mul.); 3A4 (Am.); E1485 (MOV)	P
766	IE5GP, IE5GT (Am.)	P	808	3A5 (Am.); DCC90 (Mul.)	TT
767	IF4 (Am.)	P	809	3A105B (STC)	T
768	IF5G (Am.)	P	812	3B24, 732A; 428T (Am.); CV4021	R
769	IF6 (Am.)	DDT	813	959 (Am.); CV1794	P
770	IF7GV (Am.)	DDT	814	3BP1 (Am.); CV2934	CR
771	IG5G (Am.)	P	815	3D6/1299 (Am.); 3D6 (BEL)	Q
772	IG6G (Am.)	TT	816	3DPI (Am.)	CR
773	IG6GT (Am.)	TT	818	3Q4 (Am., BEL); DL95 (Mul.); N18 (MOV)	P
774	IH4G (Am.)	T	819	3Q5GT (Am., BEL); DL33 (Mul.); N16 (MOV)	P
775	IL6A (Am.)	H	820	354 (Am., BEL); DL92 (Mul.); N17 (MOV); IP10 (AEI); CV2370	P
776	ILB4 (Am.)	P	824	4E27, HK257B (Am.)	P
777	ILC5 (Am.)	P	841	5U4GT (Am.); CV575	RR
778	ILC6 (Am.)	H	842	5W4G (Am.)	RR
779	ILD5 (Am.)	DP	843	6AB5/6N5 (Am.); CV504	TI
780	ILH4 (Am.)	DT	844	6AC5G (Am.)	T
781	ILN5 (Am.)	P	845	6AC5GT (Am.)	T
782	IR5 (Am., BEL); DK91 (Mul.); ICI (AEI); X17 (MOV)	H	846	6AC7 (Am.); CV660	P
783	IS4 (Am., BEL); DL91 (Mul.)	P			

Service Valve Equivalents

CV No.	Commercial Equivalent and Manufacturer	Type of Valve or Tube	CV No.	Commercial Equivalent and Manufacturer	Type of Valve or Tube
847	6AF6G (Am.)	TI	896	7K7 (Am.)	DDT
848	6AG5 (Am.)	P	897	7J7 (Am.)	TH
849	6AJ7/6AC7 (Am.)	P	898	7N7 (Am.)	TH
850	6AK5 (Am., BEL); EF95 (Mul.); 5654 (Am.); CV4010	P	899	7Q7 (Am.)	H
851	6B4G (Am., BEL)	T	900	7R7 (Am., BEL)	DDP
852	6C4 (Am., BEL); CV133	T	901	7Y4 (Am., BEL)	RR
853	6C7 (Am.)	DDT	902	7W7 (Am.)	P
854	6G8G (Am.)	DDP	908	12A5 (Am.)	P
855	6G8G (Am.)	DDP	909	12A7 (Am.)	RP
856	6G8G (Am.)	DDP	910	12A8GT (Am.)	H
857	6G8G (Am.)	DDP	911	12B8GT (Am.)	TP
858	6J6 (Am., BEL); ECC91 (Mul.); 6101 (Am.); CV4031	TH	916	12H6 (Am.)	DD
859	6J8G (Am.)	TH	917	12J7GT (Am., BEL)	P
860	6K5G (Am.)	T	918	12K7GT (Am., BEL); KTW7 4M (MOV)	P
861	6L5G (Am.)	T	919	12SF5 (Am.)	T
862	6P7G (Am.)	TP	920	12SF5GT (Am.)	T
863	6SD7GT (Am.)	P	921	12SF7 (Am.)	DP
864	6SJ7Y (Am.); CV591	P	922	12SH7 (Am.)	P
865	6SR7 (Am.)	DDT	923	12SJ7GT (Am.); CV698	P
866	6SR7 (Am.)	DDT	924	12SL7GT (Am., BEL)	P
867	6SR7 (Am.)	DDT	925	12SN7GT (Am.)	TT
868	6SR7 (Am.)	DDT	932	GL446A (Am.); CV2643	TT
869	6SR7 (Am.)	DDT	933	15E: 8023; 4C30 (Am.)	T
870	6SR7 (Am.)	DDT	936	24 (Am.)	T
871	6SR7 (Am.)	DDT	941	HK24, 25T, 3C34 (Am.)	Q
872	6SR7 (Am.)	DDT	962	VCR97 Mod.	CR
873	6SR7 (Am.)	DDT	964	VCI39A Mod.; CV279, CV1588	CR
874	6SR7 (Am.)	DDT	966	ACR13 Mod.; 1616A (MOV)	CR
875	6SR7 (Am.)	DDT	967	4033A—401A (MOV); CV1522	CR
876	6SR7 (Am.)	DDT	979	DLS10 (AEI) now Z530331	TS
877	6SR7 (Am.)	DDT	986	15A (AEI)	LZ
878	6SR7 (Am.)	DDT	1000	4D1 (STC); CV1109	T
879	6SR7 (Am.)	DDT			
880	6SR7 (Am.)	DDT			
881	6SR7 (Am.)	DDT			
882	6SR7 (Am.)	DDT			
883	6SR7 (Am.)	DDT			
884	6SR7 (Am.)	DDT			
885	6SR7 (Am.)	DDT			
886	6SR7 (Am.)	DDT			
887	6SR7 (Am.)	DDT			
888	6SR7 (Am.)	DDT			
889	6SR7 (Am.)	DDT			
890	6SR7 (Am.)	DDT			
891	6SR7 (Am.)	DDT			
892	6SR7 (Am.)	DDT			
893	6SR7 (Am.)	DDT			
894	6SR7 (Am.)	DDT			
895	6SR7 (Am.)	DDT			

Service Valve Equivalents

CV No.	Commercial Equivalent and Manufacturer	Type of Valve or Tube	CV No.	Commercial Equivalent and Manufacturer	Type of Valve or Tube
I002	TT11 (MOV); CV1501	Q	I056	EF36 (Mul.); OM5 (Cos.); CV358 ...	P
I018	21SSG (Cos.); Z21 (MOV); CV3702	Q	I057	EK32 (Mul.) ...	O
I019	PM2 (Mul.); P215 (MOV); 215P (Cos.); CV1020	T	I060	955 (Am.); HA2 (MOV); 4671 (Mul.)	T
I020	220P (Cos.); CV1019	T	I061	807 (Am.); 5B/250A (STC); CV124	T
I021	210LF (Mul.) ...	T	I062	RK34 (Am.); DET19 (MOV); 4074A (STC); CV18	T
I022	220PA (Cos.); CV1166	T	I064	DET12 (MOV); TY1-50 (Mul.); 834 (Am.); CV315	T
I023	230XP (Cos.) ...	T		DW4-500 (Mul.); U12/14 (MOV); UUI20/500	RR
I025	DET25 (MOV)	T		(HIV)	
I027	210LF (Cos.); L210 (MOV); CV1021	T	I065	SP61 (AEI); CV118 ...	P
I028	220VSG (Cos.)	T	I066	P61 (AEI)	T
I032	220B (Cos.); PM2B (Mul.) ...	T	I067	L63 (MOV); 6J5G (Am., BEL); CV1932	T
I034	DET 3 (MOV)	PP	I068	STV280/40 (MOV)	VS
I035	QP21 (MOV); QP230 (AEI)	PP	I069	STV280/80 (MOV)	VS
I036	220PA (Cos.); CV1022	T	I070	7475 (Mul.); GD100 B (Eric); CV188	RR
I037	MH4 (MOV); ACHL (AEI); 41MHL (Cos.); CV2504	T	I071	U52 (MOV); CV575	R
I038	MHL4 (MOV); 41MLF (Cos.)	T	I072	GU50 (MOV); RG1/240A (Mul.); CV1626	T
I039	MU14 (MOV); 1W4 (Mul.); R3 (BEL); UU5 (AEI)	RR	I073	H63 (MOV); 6F5G (MOV); CV1908	P
I040	PX25 (MOV); DO24 (Mul.); PP5/400 (AEI)	T	I074	KTZ63 (MOV); CV1937	Q
I041	PM12M (Mul.); VS24 (MOV); 220VS (Cos.)	Q	I075	KT66 (MOV); CV1947	T
I042	210LF (Cos.); CV1021	T	I076	DA41 (MOV); TZ40 (Am.)	T
I043	210PG (Cos.); VHT2A (Fer.); X22 (MOV); CV1082	H	I077	EM31 (Mul.) ...	T
I044	HL2IDD (AEI); 210DDT (Cos.); CV2985	DDT	I078	DI (AEI); T4D (Mul.)	T
I046	PT25H (MOV); CV1238	P	I079	KT8 (MOV)	Q
I047	TZ05-20 (Mul.); 3B/200B (STC)	T	I080	4307A (STC); 307A (Am.); CV2612	P
I048	21SSG (Cos.); CV1018	T	I081	4052A (STC)	C
I049	210SPT (Cos.); SP210 (Cos.); CV1727, 1322	Q	I082	220TH (Cos.); X24 (MOV); CV3820	TX
I050	HL2K (MOV); CV1673	P	I083	VP21 (AEI); 210VPT (Cos.)	P
I051	Pen220A (AEI); 220PT (Cos.)	P	I088	832 (Am.); C180 (EEV)	Q
I052	EL32 (Mul.)	P	I090	E1046 (MOV); CV62	Q
I053	EF39 (Mul.); OM6 (Cos.); 9D4 (STC); CV5110	P	I091	EF50 (Mul.); Z90 (MOV)	T
I054	EB34 (Mul.); OM3 (Cos.)	DD	I092	EA50 (Mul.); D61 (MOV); CV469	P
I055	EBC33 (Mul.); OM4 (Cos.)	DDT	I095	ZA2 (MOV); 954 (Am.); 4672 (Mul.); CV1579	P

Service Valve Equivalents

CV No.	Commercial Equivalent and Manufacturer	Type of Valve or Tube	CV No.	Commercial Equivalent and Manufacturer	Type of Valve or Tube
1096	5B/502A (STC); CV631	P	1133	V960 (AEI); SU41 50A (Cos.)	R
1097	VCR97; CV1385	CR	1134	HVR2 (Mul.)	R
1099	X66 (MOV)	TX	1135	DET20 (MOV); CV6	T
1100	KTW62 (MOV)	Q	1136	EF54 (Mul.); CV380	P
1101	MHL66 (MOV)	DDT	1137	EC52 (Mul.)	T
1102	BL63 (MOV)	DD	1138	GGN1/28/35; CV1587	CR
1103	Y63 (MOV); EM35 (Mul.)	TI	1141	GDT4C (Cos.)	Th
1104	PT15 (MOV); SW40Pen (Cos.)	P	1151	PM3 (Mul.); CV1152	T
1105	ML6 (MOV)	T	1152	L410 (MOV); PM4DX (Mul.); 410LF (Cos.)	T
1106	9D2 (BEL); VPI3C (Mul.); 13VPA (Cos.); CV3790	P	1154	PM254 (Mul.)	T
1107	15D2 (BEL)	H	1155	PN254 (Mul.)	T
1108	8D2 (BEL); SPI3C (Mul.)	P	1156	DEQ (MOV)	T
1109	4D1 (BEL); HLI320 (Mul.); CV3502	T	1159	S410 (MOV); PM14 (Mul.)	T
1110	S130 (Cos.); GD120A/S (Eric); CV45	VS	1160	104V (Mul.)	T
1111	U27 (MOV); R11 (BEL); V1907 (AEI)	R	1161	104V (Mul.); CV1732	T
1113	U17 (MOV)	R	1162	LP2 (Mul.)	T
1116	6F32 (AEI)	P	1163	PM2BA (Mul.)	T
1117	41MLT (Cos.); CV1037	T	1164	MS4 Mod. (MOV); AC/SG (AEI)	T
1118	KT2 (MOV); PM22A (Mul.); PEN220 (AEI)	P	1165	VMS4 Mod. (MOV)	T
1119	DDL4 (Cos.)	DD	1166	LP2 (MOV); P220 (AEI); 220PA (Cos.)	T
1120	SU2150A (Cos.)	R	1167	PM24A (Mul.)	T
1121	T41 (AEI)	Th	1168	PX4 (MOV); 4XP (Cos.); LP4 (Fer); PP3/250 (AEI)	P
1122	41MXP (Cos.); PAI (STC); ACPI (AEI)	P	1169	VMP4G (MOV)	DD
1123	EF8 (Mul.)	P	1170	D41 (MOV)	P
1124	MS/PEN (Cos.)	P	1171	HAI (MOV)	P
1125	MS/PENB (Cos.)	P	1172	VP4B (Mul.); CV1169	P
1126	4SH (Cos.)	X	1174	Pen 4VA (Mul.); KT42 (MOV); AC/PEN (AEI)	P
1127	Pen 46 (Mul.)	P	1175	ZAI (MOV); A41 (AEI); AP4 (Mul.); CV1176	Th
1128	GTIC (MOV); AN1; ME1502 (Mul.)	Th	1176	See CV1175	P
1129	MS/PEN T (Cos.); CV1879	P	1178	DA30 (MOV); DO30 (Mul.); CV1679	T
1130	HL23 (AEI); CV1586	T	1179	ML4 (MOV); AC/P (AEI); CV2502	P
1132		NI	1180	V312 (AEI); 244V (Mul.)	T

Service Valve Equivalents

CV No.	Commercial Equivalent and Manufacturer	Type of Valve or Tube	CV No.	Commercial Equivalent and Manufacturer	Type of Valve or Tube
1181	KT41 (MOV); 7A3, 4066A (STC); Pen A4 (Mul.) ...	P	1262	GUI (MOV); RGI-250 (Mul.) ...	R
1182	MHDA (MOV); H42 (AEI) ...	T	1263	RGI-125 (Mul.); CV1623 ...	R
1183	W42 (MOV) ...	P	1264	FW4-500 (Mul.); U18/20 (MOV); 45 IU (Cos.) ...	RR
1184	A373 (MOV) ...	D	1265	U15 (MOV); RZ1-250 (Mul.); CV3747 ...	R
1186	KT63 (MOV); 6F6G (Am., BEL); CV1911 ...	P	1266	High Voltage Version of U15 (MOV) ...	R
1187	D41 (MOV); CV1170 ...	DD	1267	40SUA (Cos.); ID5 (BEL); U4020 (AEI); CV764 ...	RR
1188	N43 (MOV); CV1675 ...	P	1268	U50 (MOV); 5Y3G (Am.); CV1854 ...	R
1189	AC6 Pen (AEI) ...	P	1279	MU2 (AEI); CV1459 ...	R
1190	ACP4 (AEI) ...	T	1280	X64 (MOV) ...	H
1191	KTZ41 (MOV); CV3529 ...	Q	1282	AC152 Pen (AEI); 8AI (STC); SPT4A (Fer.) ...	P
1192	Z62 (MOV); CV3839 ...	P	1285	ECC31 (Mul.); 6N7G (Am.); CV1956 ...	T
1193	X65 (MOV); CV3826 ...	TX	1286	EL35 (Mul.); 6L6G (Am., BEL); CV1947 ...	Q
1194	X41 (MOV); 20A1 (BEL); ACTHI (AEI); CV1460 ...	T	1287	KT32 (MOV); 25L6G (Am., BEL); CV1502 ...	Q
1195	KTW63 (MOV) ...	Q	1288	DET12 (MOV); TY1-50 (Mul.); 4304CB (STC) ...	T
1196	ACS/PEN DD (AEI) ...	DDP	1290	SU2150A (Cos.); CV1120 ...	R
1197	EC53 (Mul.) ...	T	1291	See CV 1290 ...	R
1198	ACP4 (AEI); AD/P4; CV1190 ...	T	1300	10DI (STC); 2DI3C (Mul.); CV796 ...	DD
1200	202 (MOV) ...	B	1301	D63 (MOV); 6H6G (Am., BEL); CV554 ...	DD
1202	304 (MOV) ...	B	1302	D42 (MOV); CV557 ...	D
1206	B560 (AEI); DA60 (MOV); DO60 (Mul.); CV527 ...	T	1303	HL210 (AEI); PMHF (Mul.); CV1673 ...	T
1208	P625 (MOV); PM256 (Mul.) ...	T	1304	LP2 (MOV); CV1166 ...	T
1219	BS100 (AEI); DA100 (MOV); MZL-100 (Mul.) ...	T	1306	HL23DD (AEI); CV2995 ...	DD
1220	4033A (STC); CV1688 ...	T	1307	210LF (Mul.); L21 (MOV); L2 (AEI); CV1021 ...	TT
1221	PT6 (MOV); PZI-75 (Mul.); SW75 Pen (AEI) ...	P	1308	HD24 (MOV); TDD2A (Mul.); L2IDD (AEI) ...	DD
1222	ACT6 (MOV); CV2825 ...	T	1309	4019B (STC); CV1655 ...	TT
1223	DET5 (MOV); CV384 ...	T	1310	4020 (STC); CV1653 ...	TT
1235	TY1-50 (Mul.); DET12 (MOV) ...	T	1311	4022AR (STC); CV1664 ...	T
1237	PM24D (Mul.) ...	P	1312	220R (Cos.); CV1313 ...	T
1238	PM24D (Mul.) ...	P	1313	220LF (Cos.) ...	T
1240	PZI-35 (Mul.) ...	P	1314	DLS10 (AEI) now Z530332 ...	TS
1246	P2 (MOV); CV1023 ...	P	1316	4021B (STC); CV1663 ...	T
1261	RX3-120 (Mul.) ...	R	1317	S625 (MOV) ...	Q

Service Valve Equivalents

CV No.	Commercial Equivalent and Manufacturer	Type of Valve or Tube	CV No.	Commercial Equivalent and Manufacturer	Type of Valve or Tube
1318	V524 (MOV); CV1028	Q	1356	U22 (AEI); CV3750...	R
1319	V52 (MOV)	Q	1359	ME41 (AEI) ...	T
1320	SP2 (AEI); CV1409 ...	Q	1361	MZ05-20 (Mul.) ...	T
1321	9D2 (BEL); 12VPA (Cos.); CV1106	P	1363	DET16 (MOV); B150 (EEV) ...	T
1322	SP210 (AEI) ...	P	1364	807 (Am., STC); 5B/250A (STC); CV124...	Q
1323	VP2 (AEI); CV1083	P	1365	4282 (STC) ...	Q
1324	SP4 (AEI); CV1282 ...	P	1366	V248A (AEI) ...	P
1325	42MPT (Cos.)	P	1367	V245 (AEI) ...	P
1326	AC4/PEN (AEI); PEN4B (Mul.); APP4E (Tung.)	P	1368	V226 (AEI) ...	P
1327	Pen 1340 (AEI); 7D8 (BEL); CV889	P	1369	4061A (STC) ...	P
1328	7D83 (BEL); CV889 ...	P	1370	PT6 (MOV); PZ175 (Mul.); SW75 PEN (Cos.)	P
1329	APP4G (Mul.); CV2836	P	1371	4069A (STC); 803 (Am.); CV623 ...	P
1330	TSP4 (Cos.); AC/SP3 (AEI); CV2823	P	1372	807 (Am.); CV124 ...	P
1331	VP23 (AEI); CV3792, 1083	P	1373	EF85 (Mul.); 6BY7 (Am.)	Q
1332	VP21 (MOV); 210VPT (Cos.); CV1083	P	1375	EF80 (Mul.); 6BX6 (Am.)	P
1333	2201PT (Cos.); 222 (MOV); CV1727	P	1376	GZ34 (Mul.); 5AR4 (Am.)	RR
1334	KT24 (MOV); Pen 231 (AEI); CV3633	P	1377	GGNI or GGN28; CV279, 964	RR
1335	SP41 (AEI); CV 1574, 1699 ...	P	1382	1601A (MOV)	CR
1336	SP42 (AEI) ...	P	1385	E4504/E16 (MOV); CV1587	CR
1337	116 Pen (Cos.)	P	1391	CIC (Mul.) ...	B
1338	220VPT (Cos.); CV1083	P	1400	CY31 (Mul.); OMI (Cos.)	R
1340	KT44 (MOV); CV1576	P	1402	DD41 (AEI) ...	DD
1341	MP44 (MOV); CV1282	P	1403	EF36 (Mul.); CV1056	P
1342	QP25 (AEI); CV556...	P	1404	E1199 (MOV)	P
1343	KT273 (MOV)	P	1405	Pen 45 (Mul.)	P
1344	TP22 (AEI) ...	TP	1407	P41 (AEI) ...	T
1345	TP25 (AEI); CV3735	TP	1408	SP2 (AEI); CV1320 ...	P
1347	ECH35 (Mul.); X61M (MOV); 6K8G (Am.); CV281	TX	1409	TH2 (Mul.)	TX
1352	EM80 (Mul.); 6BR5 (Am.)	TI	1410	TH41 (AEI) ...	TX
1353	OAB1 (Mul.)	SD	1411	TV4 (Mul.)	TI
1354	OAB5 (Mul.)	SD	1412	UU6 (AEI) ...	RR
1355	ESU300 (AEI); 4049C (STC); CV2947	R	1413	...	...

Service Valve Equivalents

CV No.	Commercial Equivalent and Manufacturer	Type of Valve or Tube	CV No.	Commercial Equivalent and Manufacturer	Type of Valve or Tube
I414	VP41 (AEI); CV21 ...	P	I464	EF39 (Mul.); CV1053	P
I415	4011A (STC) ...	T	I466	P57 (Mul.) ...	P
I418	I0D1 (BEL); CV1300	DD	I468	SP4 (Mul.); CV1324 ...	P
I419	I1D3 (BEL); HLDD (AEI); TDD13C (Mul.)	DDT	I469	Z32 (MOV); CV1727	P
I424	20A1 (BEL); CV1194	TX	I471	4049A (STC); CV1355; CV5	R
I425	7D5 (BEL) ...	P	I472	CMG25 (MOV); CV242	PC
I426	EK2 (Mul.) ...	O	I473	CMG22 (MOV); GS16 (90 volt); CV405	PC
I427	EF9 (Mul.); CV1714	P	I501	E1192, T111 (MOV)	Q
I428	EBC3 (Mul.); CV1715	DDT	I502	KT32 (MOV); 25L6G (Am.); CV551	Q
I429	EL2 (Mul.) ...	P	I503	KT33C (MOV) ...	Q
I430	AC/SP3RH (AEI) ...	P	I505	MH41 (MOV); CV1678	T
I432	CMG8 (MOV); GS26 (Cin.)	PC	I508	V1913 (AEI); U19 (MOV); CV187	R
I433	EC31 (Mul.) ...	T	I510	QVO4-7 (Mul.); CV309	Q
I434	EM4 (Mul.) ...	TI	I515	MX1 (EMI); CV418	Q
I435	GU20 (MOV); AH221 (EEV)	R	I521	946A (MOV) ...	CR
I437	KT44 (MOV); CV1577	P	I522	401A (MOV); CV967	CR
I438	KT61 (MOV); EL33 (Mul.); 6AG6G (Am.)	Q	I526	701D (MOV); 3EG1 (Cin.)	CR
I443	U10 (MOV); RI (STC); DW2 (Mul.)	RR	I529	908A (MOV); CV1587	CR
I444	42SPT (Cos.) ...	P	I530	1602M (MOV); 6LY1 (Am)	CR
I446	40178 (STC) ...	R	I535	EZ80 (Mul.); 6V4 (Am.)	RR
I449	40648 (STC); 872A (Am.); CV642	R	I536	1608D (MOV) ...	CR
I451	4274A (STC); 274A (Am.)	RR	I539	D15 (BEL) ...	B
I452	4300A (STC); 300A (Am.)	T	I540	33B/152M (STC) ...	T
I454	225DU (Cos.) ...	RR	I565	230XP (Cos.); CV1023	RR
I456	Pen 383 (AEI) ...	P	I569	R3 (BEL); CV1039	RR
I457	VPI33 (AEI) ...	P	I570	EK32 (Mul.); CV1057	O
I458	41MP (Cos.); CV1732	T	I572	807 (Am.); CV124	O
I459	MU2 (AEI); CV1279	R	I573	40748 (STC) ...	T
I460	X41 (MOV); CV1194	TX	I574	SP41 (AEI); CV1335	P
I461	U22 (MOV); CV1356	R	I575	U52 (MOV); 5U4G (Am., BEL)	RR
I462	A915 (MOV) ...	P	I576	KT44 (MOV); CV1340	P
I463	CBL31 (Mul.) ...	DTP	I577	KT44 (MOV); CV1340	Q

Service Valve Equivalents

CV No.	Commercial Equivalent and Manufacturer	Type of Valve or Tube	CV No.	Commercial Equivalent and Manufacturer	Type of Valve or Tube
1578	EF50 (Mul.); CV1091	Q	1650	L55A (MOV)	T
1579	954 (Am.); ZA2 (MOV)	P	1651	G445B (MOV)	T
1581	ECH35 (Mul.)	TX	1652	P220A (Mul.); CV1023	T
1582	S130 (Cos.); CV45 ...	VS	1653	4020A, 3A/108A (STC)	T
1584	41MTL (Cos.); CV1117	T	1654	L2 (MOV); PM2DX (MOV); CV1021	T
1585	T41 (AEI); CV1121 ...	Th	1655	4019B, 3A/108B (STC)	T
1586	HL23 (AEI); CV1130	T	1656	L58 (MOV)	T
1587	ECR35 (Mul.); 901A (MOV); 90EG4 (Cin)	CR	1657	4020B, 3A/108B (STC)	T
1588	ECR30 (Mul.); E4205/B7 (MOV); CV964	CR	1658	L59B (MOV) ...	T
1597	401A (MOV); CV1522	CR	1659	4022B, 3A/110B (STC)	T
1598	9D2 (STC); CV1106	P	1660	L57 (MOV)	T
1620	DET6 (MOV); 4094A (STC)	T	1661	DL (MOV)	T
1623	RGI-125 (Mul.); CV1263	R	1662	P215 (MOV)	T
1626	RGI-240 (Mul.); CV32	R	1663	4021B, 3A/109B (STC)	T
1632	IN82 (Am.)	ST	1664	4022AR, 3A/110A (STC)	T
1633	3V4 (Am., BEL)	P	1665	DH (MOV)	T
1634	XB2 (Hiv.)	B	1666	P610 (MOV)	T
1635	5A/163K (STC)	P	1667	L55X (MOV)	T
1636	L55 (MOV); CV1637	P	1669	P825 (MOV)	T
1637	L55 (MOV)	T	1670	4DI (STC); HL13C (Mul.)	T
1638	4101D (STC)	T	1671	4021A, 3A/109A (STC)	T
1639	4101E, 3A/141A (STC)	T	1672	Pen 36C (Mul.)	T
1640	4102D, 3A/142A (STC)	T	1673	HL2 (MOV); HLBI (STC); 210HL (Cos.)	T
1641	4102E, 3A/141A (STC)	T	1674	AC/52 Pen (AEI); CV1282	T
1642	DER (MOV)	T	1675	N43 (MOV); CV1188	T
1643	E132 (MOV)	T	1676	L58A (MOV)	T
1644	E1532 (MOV)	T	1677	SV4B (Mul.); CV1164	T
1645	E133 (MOV)	T	1678	MH41 (MOV); AC/HL (AEI); CV1505	T
1646	E1453 (MOV)	T	1679	DA30 (MOV); CV1178	T
1647	L55B (MOV) ...	T	1680	PM202 (Mul.); CV1185	T
1648	4203B, 3B/151A (STC)	T	1681	TSF4 (Mul.)	T
1649	E133 (MOV)	T	1682	PEN44 (AEI)	T

Service Valve Equivalents

CV No.	Commercial Equivalent and Manufacturer	Type of Valve or Tube	CV No.	Commercial Equivalent and Manufacturer	Type of Valve or Tube
1683	MP/PEN (Cos.); APP4A (Tun.); CV1174	P	1716	E1541 (MOV)	T
1684	APP4C (Tun.); CV1685	P	1717	4307A (STC)	P
1685	APP4C (Tun.); CV1684	P	1718	AC/TP (AEI)	TP
1686	D418; CV1687	D	1719	U22 (AEI); CV3750	R
1687	D418; CV1686	D	1720	XL 1.5 (Hivac.); CV176	T
1688	4033L; 3B/2528 (STC); 61P (Cos.)	T	1721	XP 1.5 (Hivac.); CV176	Q
1689	3B/100B (STC); PAI; CV1732	T	1722	A901 (MOV)	P
1690	9A1 (STC); CV1172	P	1723	V257 (AEI)	P
1691	DDL4; CV719	P	1724	5A/102D (STC)	P
1692	AC/P (AEI); CV1732	DD	1726	5A/105A (STC)	P
1694	4104D; 3A/144A (STC)	T	1727	SP210 (AEI); CV1322	P
1695	DDL13 (Cos.); DH30 (MOV)	T	1728	WE262B (Am.)	P
1696	B21 (MOV); PM2BA (Mul.)	DD	1731	SL30 (Cos.); (MOV); CV1110	P
1697	X41 (MOV); AC/TH1 (AEI); CV1460	TX	1732	ML4 (MOV); PAI (STC); CV1689	VS
1698	AB19 (MOV)	Q	1733	4018AG	T
1699	SP41 (AEI); CV1335	P	1735	DC2/P (AEI)	CR
1700	SP41 (AEI); CV1335	P	1736	ACT22 Mod. (MOV); CV257, CV6055	T
1701	XLO (Hivac.)	T	1741	EL34 (Mul.); 6CA7 (Am.)	P
1702	XP (Hivac.)	T	1745	62BT (Cos.)	P
1703	XW (Hivac.)	T	1751	34 (Am.); CV711	P
1704	57 (Am.); CV612	P	1752	35/51 (Am.)	P
1705	58 (Am.); CV613	P	1753	35A5 (Am.)	P
1706	2B7 (Am.); CV1837	P	1754	35TG (Am.)	Q
1707	2A5 (Am.); CV1834	DDP	1755	1626 (Am.)	P
1708	80 (Am.); CV617	P	1756	1629 (Am.)	TI
1709	6D6 (Am.)	RR	1757	9001 (Am.)	P
1710	6C6 (Am.); CV585	P	1758	IL4 (Am.); DF92 (Mul.); IF2 (AEI)	P
1711	6B7 (Am.); CV1891	P	1759	2C26A (Am., BEL)	P
1712	42 (Am.); CV609	DDP	1762	6AK6 (Am., BEL)	T
1713	EF8 (Mul.); CV1123	P	1763	614 (Am.); CV5311	P
1714	EF9 (Mul.); CV1427	P	1769	2A6 (Am.)	T
1715	EBC3 (Mul.); CV1428	DDT	1770	7A4 (Am.)	DDT

Service Valve Equivalents

CV No.	Commercial Equivalent and Manufacturer	Type of Valve or Tube	CV No.	Commercial Equivalent and Manufacturer	Type of Valve or Tube
1771	39/44 (Am.); 239	...	1831	2A3 (Am., BEL)	T
1772	47 (Am.)	...	1832	OA2 (Am., STC); 150C2 (Mul.); QSI207 (EEV, MOV); GDI50M/S (Erica.)	V5
1773	82 (Am.)	...	1833	OB2 (Am., STC); 108C1 (Mul.); QSI208 (EEV, MOV)	V5
1775	36 (Am.)	...	1834	2A5 (Am.); CV1707	P
1776	6D7 (Am.)	...	1835	RR3-250 (Mul.); GXUI (MOV); 3B28 (MOV-EEV)	R
1777	7C7 (Am.)	...	1837	2B7 (Am.); CV1706	DDP
1784	6AK7 (Am.); 6AH7 (Am.)	...	1838	QQZO4-15 (Mul.); 5895 (Am.)	QQ
1785	IN26 (Am.)	...	1839	6F13 (AEI)	P
1790	7Z4 (Am.); CV346	...	1843	2Y2 (Am.); CV597	R
1794	959 (Am.)	...	1844	CS3B (AEI)	SD
1795	723A/B (Am., Mul.); KS9-20 (Mul.); CV2792	...	1846	5T4 (Am.)	RR
1796	DW4/350 (Mul.); R4 (BEL); U12/14 (MOV); UUI20/350 (AEI)	...	1848	20A2 (AEI)	Th
1800	1A7G (Am.)	...	1849	5W4 (Am.)	RR
1802	1A7GT (Am., BEL); DK32 (Mul.)	...	1850	6L19 (AEI)	TT
1803	IC5G (Am.); N14 (MOV); DL35 (Mul.)	...	1851	5X4G (Am.)	RR
1804	EAC91 (Mul.); CV137	...	1852	5X4 (Am.)	RR
1805	ICGT (Am., BEL); DL35 (Mul.)	...	1853	6P25 (AEI)	Q
1806	ID5GT (Am.); CV705	...	1854	5Y3G (Am.); CV1268	RR
1811	ID8GT (Am.)	...	1855	UU9 (AEI)	RR
1812	IE7GT (Am.)	...	1856	5Y3GT (Am., BEL); CV1854	RR
1816	6Y3G (Am.)	...	1857	5Y4G (Am.)	RR
1817	IG4GT/G (Am.); CV774	...	1861	5Z3 (Am.)	RR
1818	IH5G (Am., BEL)	...	1862	6AQ5 (Am., BEL); EL90 (Mul.); N727 (MOV); 6005 (Am.); CV4019	Q
1819	6P5GT (Am.)	...	1863	5Z4G (Am., BEL); 5ZKU (Cos.); CV2748	RR
1820	IH5GT (Am.); DAC 32 (Mul.)	...	1864	5Z4 (Am.); CV2748	RR
1821	IN5G (Am.)	...	1865	EC81 (Mul.); 6R4 (Am.)	T
1823	IN5GT (Am.); DF33 (Mul.)	...	1867	6A6 (Am.)	TT
1824	IO5G (Am.)	...	1870	6A7 (Am.)	H
1825	KT45 (MOV)	...	1873	6AB7/1853 (Am.); 6AB7 (Am.)	P
1826	IO5GT (Am.)	...			
1830	U41 (MOV); IB3GT (Am.); CV2115	...			

Service Valve Equivalents

CV No.	Commercial Equivalent and Manufacturer	Type of Valve or Tube	CV No.	Commercial Equivalent and Manufacturer	Type of Valve or Tube
1874	1852 (Am.); CV660	L	1926	6G6G (Am.)	P
1876	6AD7G (Am.)	P	1928	12BA6 (Am., BEL); HF93 (Mul.)	P
1878	MS/PEN.T, CV1129, CV1124	TP	1929	6H6G (Am., BEL); D63 (MOV); CV554	DD
1879	6AG7 (Am.)	P	1930	6H6 (Am.); CV1929	DD
1884	33A/158M (STC)	TT	1931	6H6GT (Am., BEL); L63 (MOV); CV1067	T
1885	6B5 (Am.)	-TT	1932	615G (Am., BEL)	T
1886	EC80 (Mul.)	T	1933	615 (Am.)	T
1887	6B6G (Am.)	TT	1934	615GT (Am., BEL)	P
1891	6B7 (Am.); CV1711	DDP	1935	617G (Am., BEL)	P
1893	6B8G (Am., BEL)	DDP	1936	617 (Am.)	P
1894	6B8 (Am.)	DDP	1937	617GT (Am., BEL)	P
1895	STV70160 (EEV., MOV)	DDP	1938	6K6G (Am., BEL)	P
1896	6C8G (Am.)	VS	1940	6K6GT (Am.)	P
1899	6L18 (AEI)	TT	1941	6K7G (Am., BEL); KTW63 (MOV)	P
1900	6D6 (Am.); CV1709	T	1942	6K7 (Am.)	P
1901	6F11 (AEI)	P	1943	6K7GT (Am., BEL)	P
1902	6D8G (Am.)	P	1944	6K8G (Am., BEL); ECH35 (Mul.)	TX
1905	4-65A (Am.); QY3-65 (Mul.)	H	1945	6K8 (Am.)	TX
1906	6E5 (Am.)	Q	1946	6K8GT (Am., BEL)	Q
1907	CS2C (AEI-BTH)	TI	1947	6L6G (Am., BEL); EL37 (Mul.); KT66 (MOV)	Q
1908	6F5G (Am.); CV1073	SD	1948	6L6 (Am.); CV5118	Th
1909	6F5 (Am.)	T	1949	6D4 (Am.); EM93 (Mul.); AFX212 (EEV)	H
1910	6F5GT (Am.)	T	1950	6L7G (Am.); X64 (MOV); CV1280	H
1911	6F6G (Am., BEL); KT63 (MOV); CV1186	T	1951	6L7 (Am.)	TT
1912	6F6 (Am.)	P	1953	6N6G (Am.)	TT
1915	6F7 (Am.)	P	1954	6N6 (Am.)	TT
1917	6F8G (Am.)	TP	1955	CV138 Mod.	P
1919	6F14 (AEI)	TT	1956	6N7G (Am.); CV1285	TT
1920	6LD20 (AEI)	P	1957	6N7 (Am.)	TT
1921	U24 (AEI)	DDT	1958	6N7GT (Am., BEL)	TT
1924	TY2-125 (Mul.); 5866 (Am.)	R	1959	50C5 (Am., BEL); HL92 (Mul.)	P
		T	1960	6R6G (Am.)	P

Service Valve Equivalents

CV No.	Commercial Equivalent and Manufacturer	Type of Valve or Tube	CV No.	Commercial Equivalent and Manufacturer	Type of Valve or Tube
1961	12AU6 (Am., BEL) ...	P	2003	CV136 Mod.	P
1962	6R7G (Am., BEL); DL63 (MOV); CV2912	DDT	2004	CV140 Mod.	DD
1963	6R7 (Am.) ...	DDT	2005	CV140 Mod.	DD
1964	6R7GT (Am.) ...	DDT	2006	CV173 Mod.	P
1966	6SA7 (Am.) ...	H	2007	CV491 Mod.	DT
1967	6SA7GT/G (Am.) ...	H	2008	CV408 Mod.	T
1969	6SC7 (Am.) ...	TT	2009	CV417 Mod.	T
1970	6SC7GT (Am., BEL)	TT	2010	CV858 Mod.	TT
1971	CV785 ...	P	2011	CV492 Mod.	TT
1972	6SF5 (Am.) ...	T	2012	CV449 Mod.	VS
1973	6SF5GT (Am.) ...	T	2013	CV2127 Mod.	P
1974	6SG7 (Am.) ...	P	2014	CV2129 Mod.	P
1975	6S7 (Am.); CV1942	P	2015	CV173 Mod.	P
1977	UL41 (Mul.); 45A5 (Mul.)	P	2016	CV455 Mod.	TT
1978	6SG7 (Am.) ...	P	2018	CV286 Mod.	VS
1979	6IBT (Cos.) ...	P	2020	CV850 Mod.	P
1980	185BT (Cos.) ...	Q	2021	CV493 Mod.	RR
1981	6SK7 (Am.) ...	Q	2022	CV2136 Mod.	Q
1982	6SK7GT (Am.) ...	P	2023	CV131 Mod.	H
1985	6SL7GT (Am., BEL)	TT	2024	CV453 Mod.	P
1988	6SN7GT (Am., BEL); B65 (MOV); ECC35 (Mul.); CV569	TT	2025	CV2195 Mod.	P
1989	SD6 (Cos.) ...	D	2026	CV454 Mod.	VS
1990	6SQ7 (Am.) ...	DDT	2027	CV1832 Mod.	P
1991	6SQ7GT (Am.) ...	DDT	2028	CV3998 Mod.	VS
1992	Z300T (Mul.) ...	Th	2029	CV395 (Mod.)	P
1993	6SS7 (Am.); CV1981	P	2101	CV5377 (Mod.)	P
1995	6ST7G (Am.) ...	DDT	2102	DF72 (Mul.) ...	P
1996	6ST7 (Am.) ...	DDT	2103	DL75 (Mul.) ...	P
1999	IV (Am.) ...	R	2104	DF73 (Mul.) ...	P
2000	CV138 Mod. 5A/159M (STC)	P	2105	DAF70 (Mul.)	DP
2002	CV136 Mod.	P	2106	DL70 (Mul.) ...	P
				DL66 (Mul.); CV2288	P

Service Valve Equivalents

CV No.	Commercial Equivalent and Manufacturer	Type of Valve or Tube	CV No.	Commercial Equivalent and Manufacturer	Type of Valve or Tube
2107	DF66 (Mul.)	P	2209	CV4064	P
2115	U41 (MOV); IB3GT (Am.)	R	2212	6158 (Am.); 13D3 (STC); CV4068	TT
2127	CH6 (BEL); EL821 (Mul.); 6132 (Am.); CV4055	P	2214	3B1240M (STC)	Th
2128	ECH81 (Mul.); 6A18 (Am.); X719 (MOV)	TH	2217	6K25 (AEI)	R
2129	5763 (Am., BEL); QVO3-12 (Mul.); 6062 (Am.)	Q	2218	R17 (BEL); 6157 (Am.)	C
2130	QVO3-12 (Mul.); C1118 (EEV); 6155 (Am.)	Q	2223	G10/241/E (STC)	Th
2131	QY4-250 (Mul.); C1112 (EEV); 6156 (Am.)	Q	2224	G1/371K (STC)	VS
2133	90CG (Mul.); CMG29 (MOV)	PC	2225	15082 (Mul.); QS1200 (MOV, EEV)	SD
2134	90CV (Mul.); CMV31 (MOV)	PC	2226		CR
2135	8D5, 6BR7 (BEL); CV4006	P	2228	CV1547	CR
2136	6BW6 (BEL); CV4043	Q	2230	965K (MOV)	R
2154	SIM2 (GEC); CS12B (AEI); CV7108	SD	2235	R18 (BEL); EY84 (Mul., MOV); 6374 (Am.)	CR
2155	SIM5 (GEC); CS12BR (AEI); CV7109	SD	2236	Z800U (Mul.)	CC
2156	CV415 (MOV)—19 volt version—	QQ	2237	IAD4 (Am.); DF62 (Mul.); XFRI (Hiv.)	P
2163	ACT28 (MOV)	T	2238	DL620 (Mul.); XFY14 (Hiv.); 5672 (Am.)	P
2171	A2087 (MOV)	ND	2239	XFR3 (Hiv.); 5676 (Am.)	T
2172	DC80 (Mul.)	T	2240	DL68 (Mul.); 3B4 (Am.)	Q
2174	G240/2D (STC)	Th	2241	SN956B; DY50 (Mul.); 5642 (Am.)	R
2175	DG7-5 (Mul.); 3ALPI (Am.)	CR	2243	PSG8-6F14 (AEI)	P
2179	E2134 (MOV); CV4062	P	2244	902M (MOV)	CR
2184	704D (MOV)	CR	2259	DL68 (Mul.)	P
2185	88D (Cos.)	CR	2260	DF64 (Mul.); O2DF (Mul.)	P
2191	DG13-2 (Mul.); 5CPIA (Am.)	CR	2266	CC3L (Hiv.)	VS
2193	89D (Cos.)	CR	2269	ME1401 (Mul.); CV495; 5802 (Am.)	T
2194	G400/IK (STC)	VS	2270	90AG (Mul.); CMG29 (MOV)	PC
2195	CV138 selected	P	2271	GC10B; Z303C (Mul.); GC10B/S (Eric.)	C
2200	VX3098	T	2272	446C (MOV)	CR
2201	TD4.5-10 (Mul.)	T	2275	DC70 (Mul.)	T
2202	XE2 (Hiv.)	T	2276	Z319 (MOV)	P
2204	TDO3-10F (Mul.); A2044 (MOV)	T	2279	GEX34 (quad.) (GEC)	SD
2205	408A (MOV)	CR	2280	746D (MOV); CV1526	CR
2208	G50/1G (STC)	VS	2287	12GH (MOV)	GM

Service Valve Equivalents

CV No.	Commercial Equivalent and Manufacturer	Type of Valve or Tube	CV No.	Commercial Equivalent and Manufacturer	Type of Valve or Tube
2288	DL66 (Mul.); CV2106	P	2370	DL92 (Mul.); CV484	P
2289	U37 (MOV); CV4061	R	2371	DF61 (Mul.); 6611 (Am.)	P
2290	GEX66 (GEC) CV7110	SD	2382	EL822 (Mul.)	P
2291	I909A	B	2384	CV4073	SD
2293	XB1; UD143 (Hiv.)	B	2385	CV4060	SD
2295	3E29 (Am.); QOV5-P10 (Mul.)	QQ	2387	CV4519	P
2296	NSP2	QQ	2389	CXT1 (Mul.)	ST
2299	DL73 (Mul.)	Th	2390	3A4 (Am.); DL93 (Mul.); CV807	P
2300	3A4 selected (Am.); DL93 (Mul.); CV807	P	2391	SIM8 (GEC)	SD
2301	902A (MOV)	CR	2392	SIM9 (GEC)	SD
2302	ICP31 (ETL); DH3-91 (Mul.)	CR	2394	DA42 (MOV)	T
2310	GEX64 (GEC)	SD	2395	CV273 (Mul.; MOV)	T
2316	6097B (EMI)	P.M	2397	DET29 (MOV)	T
2317	6097C (EMI)	P.M	2400	CXT2 (Mul.)	ST
2318	A2272 (MOV)	R	2411	VX8194 (Mul)	P
2325	Z502S (Mul.); GS 10C (Eric)	C	2413	CV4074	SD
2329	4004B	B	2417	CV2171 (MOV)	ND
2331	DL64 (Mul.)	P	2419	CV2280	CR
2338	F2	B	2431	DG7-32 (Mul.); 3AMPI (Am.)	CR
2340	KD60...	VS	2432	6205 (Am.)	P
2341	E2121 (MOV)	ND	2433	DF63 (Mul.)	P
2347	5B/258M (STC)	Q	2434	Z803U (Mul.); GTE 130T (Eric.); 6779 (Am.)	CCT
2348	ME1403 (Mul.); 5889 (Am.)	P	2453	A2521 (MOV); CV4105	T
2349	EN30 (Mul.)	Q	2456	SCI-350 (MOV)	VS
2352	DG16-22 (Mul.); 7AHPI (Am.)	CR	2457	SCI-400 (MOV)	VS
2355	CV2226; CV7181	SD	2458	SCI-600 (MOV)	VS
2356	CV2226; CV7182	SD	2459	SCI-800 (MOV)	VS
2357	CV2226; CV7183	SD	2460	SCI-1000 (MOV)	VS
2358	W7/11D	TW	2461	SCI-1200 (MOV)	VS
2360	5A6 (Am.)	P	2462	SCI-1400 (MOV)	VS
2361	DL69 (Mul.)	P	2464	I352W (MOV)	CR
2369	CV469 Mod.; AA76 (Mul.)...	D	2465	5B/254G (STC)	Q

Service Valve Equivalents

CV No.	Commercial Equivalent and Manufacturer	Type of Valve on Tube	CV No.	Commercial Equivalent and Manufacturer	Type of Valve on Tube
2466	QQVO2-6 (Mul.); 11E13 (AEL); 6939 (Am.)	QQ	2532	49 (Am.)	O
2486	XC18...	Th	2533	50 (Am.)	O
2487	4X250B (STC, Am., MOV); QV2-250B (Mul.)	Q	2534	50L6G (Am., BEL)	TT
2492	E88CC (Mul.); 6922 (Am.); CV4108	TT	2535	53 (Am.)	TT
2493	E88CC/01 (Mul.); CV4110	CR	2536	53A (Am.)	DDT
2498	DPI6-22 (Mul.); 7AHP7 (Am.)	R	2537	55 (Am.)	P
2500	35Z4GT (Am., BEL)	R	2538	59 (Am.)	P
2501	40 (Am.)	T	2544	78 (Am.)	TT
2502	41FP (Cos.); CV1179, 1732	T	2545	79 (Am.)	TT
2503	41MH (Cos.); CV1678	T	2546	81 (Am.)	RR
2504	41 MHL (Cos.); CV1037	T	2547	83V (Am.)	RR
2505	41MPG (Cos.); CV3576	H	2548	84 (Am.); CV619	RR
2506	41 MPT (Cos.)	P	2549	85 (Am.)	DDT
2507	IU4 (Am.)	P	2550	100T (Am.); CV2967	T
2508	41STH (Cos.); CV1194	TX	2552	100TH (Am.)	T
2509	41FP (Cos.); CV2502	T	2556	117L7GT (Am.)	DQ
2511	420T (Cos.)	P	2557	117N7GT (Am.)	DQ
2512	420TDD (Cos.)	DDP	2558	117Z6GT/G (Am.)	RR
2514	43 (Am.)	P	2565	2050 (Am.); B2A (Am.)	Th
2516	2C39A (Am., STC); TDI-100 (Mul.)	T	2573	5651 (Am., Mul., EEV); GD87M (Eric); CV449	VS
2517	2E30 (Am.)	Q	2574	210VPA (Cos.); CV3804	P
2518	GXU2 (MOV); RR3-1250 (Mul.); 4B32 (Am.)	Q	2576	211, 4C21 (Am.)	T
2519	4X150A (Am., MOV, STC); QVI-150A (Mul.)	R	2589	250TH (Am.)	T
2521	6AH6 (Am.)	Q	2591	RK38 (Am.)	T
2522	6AS6 (Am., Mul.)	P	2611	304TH (Am.)	T
2523	6AS7G (Am.); A1834 (MOV)	P	2612	307A (Am.)	T
2524	6AU6 (Am., BEL); EF94 (Mul.); CV4023	P	2643	2C40 (Am.); CV687	P
2526	6AY6 (Am., BEL); EBC91 (Mul.)	DDT	2650	IN66 (Am.)	T
2527	6BA7 (Am.)	H	2659	3D21A (Am.)	SD
2529	45IU (Cos.)	RR	2663	815 (Am.); QQVO4-20 (Mul.)	QQ
2530	45Z5GT (Am.)	R	2666	829B (Am.); C144 (EEV); QQVO7-40 (Mul.)	QQ
2531	46 (Am.)	Q	2679	866JR (Am.); 2B26 (Am.); CV32	R

Service Valve Equivalents

CV No.	Commercial Equivalent and Manufacturer	Type of Valve or Tube	CV No.	Commercial Equivalent and Manufacturer	Type of Valve or Tube
2691	913 (Am.) ...	CR	2830	AC/THI (AEI); CV1194	TH
2698	5896 ...	DD	2831	2C51 (Am.) ...	TT
2700	957 (Am.) ...	T	2832	AC/VP2 (AEI) ...	P
2701	958A (Am.) ...	T	2835	SR4WGY (Am.) ...	RR
2721	EL81 (Mul.); N359 (MOV); 6CU6 (Am.)	P	2836	APP4G (Tun.) ...	P
2726	EL83 (Mul.); 6CK6 (Am.) ...	P	2842	6C4WA (Am.) ...	TT
2729	E80F (Mul.); 6O84 (Am.) ...	P	2843	6J6W (Am.) ...	TT
2734	4003A, CV433 ...	B	2844	6X4W (Am.) ...	RR
2737	CV354 in VCU circuit	T	2853	RZ1-250 (Mul.); CV1265	R
2738	RG1-240 (Mul.) ...	R	2854	6AN5 (Am.) ...	Q
2741	10E/772 ...	L	2856	IN238 (Am.) ...	SD
2742	CV1758 selected; DF92 (Mul.)	P	2862	AZ31 (Mul.) ...	RR
2747	6U5G (Am., BEL) ...	TI	2864	B21 (MOV); CV1696	TT
2748	5Z4GT (Am.); GZ30 ...	RR	2865	B30 (MOV) ...	TT
2759	4304 (STC) ...	T	2866	2C51W (Am.) ...	TT
2762	4316A (STC); CV683	T	2876	2D21W (Am.) ...	Th
2769	9006 (Am.) ...	D	2877	6AK5W (Am.) ...	P
2788	P610 (MOV) ...	T	2882	6AL5W (Am.); CV4007, 4025	DD
2792	2K25 (Am.); KS9-20A (Mul.); CV1795	VM	2883	6AQ5W (Am.); CV4019	Q
2794	C105S/2G (STC) ...	CR	2884	6AS6W (Am.); CV4011	P
2795	CV1758 selected; DF92 (Mul.)	P	2888	EL31 (Mul.) ...	P
2796	6L6WGB (Am.) ...	Q	2891	DE5 (MOV) ...	T
2797	5894A (Am.); QQVO6-40A (Mul.); 5894/C178A (EEV); TT25 (MOV)	QQ	2892	DE5B (MOV) ...	T
2798	QQVO3-10 (Mul.); TT24 (MOV)	QQ	2895	DET1SW (MOV) ...	T
2799	QQVO3-20A (Mul.); C1134 (EEV); TT20 (MOV)	QQ	2898	DET8 (MOV) ...	T
2817	6L6GA (Am., BEL) ...	QQ	2899	DET9 (MOV) ...	T
2820	AC/SP1 (AEI); CV1282	Q	2900	DET10 (MOV) ...	T
2821	ECC3 (Mul.) ...	P	2901	EF86 (Mul.); Z729 (MOV); 6267 (Am.); CV4085	P
2823	AC/SP3 (AEI); CV560	TT	2903	6703 (Am.); OA2 (Am.); CV1832	VS
2825	ACT6 (MOV) ...	P	2912	DL63 (Mul.) ...	DDT
2829	IN34 (Am.) ...	T	2920	E1148 (MOV); CV6	T
		SD	2923	IN69 (Am.) ...	SD

Service Valve Equivalents

CV No.	Commercial Equivalent and Manufacturer	Type of Valve or Tube	CV No.	Commercial Equivalent and Manufacturer	Type of Valve or Tube
2924	IN70 (Am.) ...	SD	2985	HD24 (MOV); CV1044	DDT
2926	EBL31 (Mul.) ...	DDP	2987	HF100 (Am.) ...	T
2927	EC50 (Mul.) ...	T	2990	6136 (Am.) ...	P
2928	IN81 (Am.) ...	SD	2995	HL23DD (AEI); CV1306	DDT
2930	ECH33 (Mul.) ...	TX	2996	HL41DD (AEI) ...	DDT
2934	3BP1A (Am.) ...	CR	2997	HL63 (MOV) ...	T
2937	6AQ6 (Am.) ...	DDT	2998	HL133 (AEI) ...	DDT
2938	EL33 (Mul.); KT61 (MOV); CV1438	P	2999	HL133DD (AEI) ...	T
2939	6F4 (Am.) ...	T	3500	HL210 (MOV) ...	T
2940	EL36 (Mul.) ...	P	3501	HL610 (MOV) ...	T
2941	EL50 (Mul.) ...	P	3502	HL1320 (AEI); CV1670	T
2951	FC2A (Mul.); CV264	O	3503	HLDD1320 (AEI) ...	DDT
2955	FC4 (Mul.) ...	O	3506	HY615 (Am.); CV6	T
2956	FC13C (Mul.); 15DI (STC) ...	O	3508	6201 (Am.); CV5212	TT
2959	3B21 (Am.) ...	R	3509	IN31 (Am.) ...	SD
2963	4D21 (Am.); 4-125A (Am.); TT16 (MOV);	R	3519	KT30 (MOV) ...	O
2964	CI108 (EEV); CV2130	Q	3520	KT31 (MOV) ...	O
2966	QY4-250B (Mul.); 5D22 (Am.)	Q	3523	6146 (Am., BEL); QVO6-20 (Mul.)	O
2968	EY86 (Mul.) ...	R	3525	IN21C (Am.) ...	O
2969	7F8 (Am.) ...	T	3526	EL85 (Mul.); 6BN5 (Am.)	SD
2970	GT1C (MOV); CV1128	Th	3527	KTW73M (MOV) ...	P
2971	5656 (Am.) ...	Q	3529	KTZ41 (MOV) ...	O
2972	5675 (Am.) ...	Q	3530	KTZ73 (MOV) ...	O
2975	5876 (Am.) ...	T	3531	L2 (AEI); CV1021	O
2977	EL84 (Mul., BEL); N709 (MOV); 6BQ5 (Am.)	T	3532	L21 (AEI); CV1021	T
2979	H2 (MOV); CV1673	P	3533	L22DD (AEI) ...	T
2980	H30 (MOV) ...	T	3534	L30 (MOV) ...	DDT
2981	DM70 (Mul.); IM3	T	3538	L610 (MOV) ...	T
2982	H410 (MOV) ...	T	3543	4D 32 (EEV, Am.) ...	O
2983	H610 (MOV) ...	T	3546	MHD4 (MOV); CV2813	DDT
2984	DL94 (Mul.); 3V4 (Am.)	P	3547	MHL4 (MOV); CV 1038	T
	6080 (Am., Mul., MOV)	TT	3552	MPT4K (MOV) ...	P

Service Valve Equivalents

CV No.	Commercial Equivalent and Manufacturer	Type of Valve or Tube	CV No.	Commercial Equivalent and Manufacturer	Type of Valve or Tube
3553	MS4B (MOV); CV1677	...	3620	P220 (AEI); CV1166	T
3554	MPT42 (MOV)	...	3621	P410 (MOV)	T
3562	MSP41 (MOV)	...	3622	P610 (MOV)	T
3565	ME41 (Mul.)	...	3623	PA40 (AEI); PX25A (MOV); CV1176	T
3567	MUI (AEI)	...	3626	Pen 4B (Mul.)	P
3570	MU4250 (AEI); CV1072	...	3627	6SN7WGT (Am.); CV1988	TT
3571	MVS Pen (Cos.); CV1169	...	3630	Pen 44 (AEI)...	P
3572	MVS Pen B (Cos.); CV2832	...	3631	Pen 45DD (AEI)	DDP
3573	MZ05-20 (Mul.)	...	3633	Pen 231 (AEI)	P
3576	MX40 (MOV); FC4 (Mul.); 15A2 (STC)	...	3634	Pen 42B (Mul.); CV1326	P
3577	26A7GT (Am.)	...	3635	Pen 1340 (AEI); 7D8 (STC); CV889	P
3578	PM22D (Mul.); CV1334	...	3636	Pen 1346 (AEI)	P
3579	PT5E (MOV)	...	3637	78P7A (Am.); CV884	CR
3580	304TL (Am.)...	...	3638	Pen A4 (Mul.); CV1181	P
3582	VP4B (Mul.)	...	3639	7UP7 (Am.)	CR
3583	5HP1 (Am.); CV601	...	3641	PM1HL (Mul.); CV1673	T
3585	451 (Am.); CV2967	...	3642	PM1LF (Mul.); CV1021	T
3587	705A (Am., STC); 8021 (Am.)	...	3643	PM2A (Mul.); CV1166	T
3589	707A (Am.); (Similar to 2K28); CV1768	...	3645	PM2DX (Mul.)	T
3590	708A (Am.)	...	3647	PM22A (Mul.); CV1334	P
3593	713A (Am.); (Similar to 717A); CV3594	...	3648	PM24E (Mul.)	P
3594	717A (Am.)	...	3649	PM22 (Mul.)	P
3599	829A (Am.); QV5-P10 (Mul.)	...	3650	12AY7 (Am.)	TT
3600	902PI (Am.)	...	3651	12SH7GT (Am.)	T
3601	7193 (Am.); CV792	...	3652	PT5 (MOV)	P
3604	GL464 (Am.); CV688	...	3653	PT6 (MOV); CV1221	P
3613	6AR6 (Am.)	...	3654	PT11 (MOV)	P
3614	6BR6 (Am.)	...	3656	PT425 (MOV)	P
3615	6BL6 (Am.)	...	3657	PV05-15 (Mul.)	P
3616	6BN6 (Am.)	...	3658	PV1-35 (Mul.)	P
3618	6L6WGA (Am.); 5932 (Am.)	...	3666	12SW7 (Am.)	DDT
3619	6SJ7WGT (Am.)	...	3667	RG4-250 (Mul.); GUI (MOV); CV1262	R

Service Valve Equivalents

CV No.	Commercial Equivalent and Manufacturer	Type of Valve or Tube	CV No.	Commercial Equivalent and Manufacturer	Type of Valve or Tube
3668	12SY7 (Am.)...	H	3742	TZ20 (Am.)...	T
3670	RG4-1000 (Mul.)...	R	3743	U5 (MOV)...	RR
3671	RK25 (Am.); CV622	P	3744	U6 (MOV)...	RR
3672	RK28 (Am.)...	P	3746	U14 (MOV); CV1064	RR
3673	RK28A (Am.); CV623	P	3747	U15 (MOV); CV1265	R
3675	9004 (Am.); CV666	D	3748	2X2 (Am.); CV597	R
3677	RK47 (Am.)...	P	3750	U22 (AEI); CV1356	R
3678	2BP1 (Am.)...	CR	3751	U21 (MOV)...	RR
3679	RK49 (Am.)...	Q	3752	U30 (MOV)...	RR
3691	S23 (MOV); CV1018	Q	3753	U31 (MOV)...	R
3692	S23 (MOV); CV1018	Q	3754	U50 (MOV); CV1268	R
3694	S130A (Cos.)...	VS	3759	UU4 (AEI); CV1039	RR
3695	S215 (Cos.); CV1018	Q	3760	UU5 (AEI); CV1039	RR
3697	12SX7GT (Am.); CV925	T	3761	UU7 (AEI)...	RR
3698	S610 (MOV)...	Q	3785	VMP4G (MOV); CV1169	P
3699	S693 (Am.)...	P	3786	VMP4G (MOV); CV1169	P
3702	SG215 (AEI); CV1018	P	3787	VP2 (Mul.); CV1083	P
3703	SP4B (Mul.)...	P	3788	VP4 (Mul.); CV1169	P
3704	SPI3C (Mul.); CV1108	P	3789	5842 (Am.) (MOV)...	T
3705	S691 (Am.)...	T	3790	VP13C (Mul.); CV1106	P
3707	6AL7GT (Am.)...	T	3791	VP21 (AEI); CV1083	P
3709	STV150/200 (MOV)	VS	3792	VP23 (AEI); CV1331	P
3711	N78 (MOV)	VS	3793	VP24 (AEI)...	P
3712	STV280/80A (MOV, EEV); CV1069	VS	3794	VP210 (AEI); CV1083	P
3714	CV788 Mod.	Q	3795	VP215 (AEI); CV1018	P
3722	T20 (Am.)...	T	3796	VP1322 (AEI); CV1106	P
3723	T41 (AEI); CV1121	Th	3797	V944A (AEI)	PC
3725	GL446 (Am.); CV687	T	3798	OA3 (Am.); VR75-30 (Am., STC); QSI205 (EEV)	VS
3726	TDD2A (Mul.); CV1044	DDT			
3727	TDD4 (Mul.); CV2813	DDT	3799	OB3 (Am.); VR90/30 (Am.)	VS
3734	6X5WGT (Am.)...	RR	3804	W21 (MOV); CV1083	P
3735	TP26 (AEI)...	TP	3805	W30K (MOV)...	P

Service Valve Equivalents

CV No.	Commercial Equivalent and Manufacturer	Type of Valve or Tube	CV No.	Commercial Equivalent and Manufacturer	Type of Valve or Tube
3806	W31 (MOV)	P	3889	EL41 (Mul.); 6CK5 (Am.)	P
3809	807W (Am.); CV124	DDP	3890	EL42 (Mul.)	P
3810	WD30 (MOV)	H	3891	EZ40 (Mul.); 6BT4 (Am.)	RR
3816	X21 (MOV); CV1043	H	3892	AZ41 (Mul.)	RR
3817	X21MET (MOV); CV1043	H	3893	4X150G (Am.); QVI-150G (Mul.)	Q
3818	X22 (MOV); CV1043	H	3894	6B7 (Am.); 6021 (Am.)	RR
3819	X24 (MOV); CV1082	TX	3895	5702 (Am.)	P
3820	X24 MET (MOV); CV1082	TX	3896	5784 (Am.)	P
3821	X31 (MOV)	TX	3898	5829 (Am.); CV5059	DD
3822	X31 MET (MOV); CV3821	TX	3899	5932 (Am.)	Q
3823	X41 MET (MOV); CV1194	TX	3900	5963 (Am.)	TT
3824	X61 (MOV); CV821	TX	3908	6BH6 (Am.); BEL	P
3825	X63 (MOV); CV578	H	3909	6B16 (Am.); BEL	P
3826	X65 (MOV); CV1193	TX	3912	1U5 (Am.); BEL	DP
3827	12C8GT (Am.); BEL	DDP	3915	8025A (Am.)	T
3828	X66 (MOV); CV1099	TX	3919	U82 (MOV)	R
3830	XH 1.5 (Hiv.)	T	3920	A2196 (MOV)	T
3835	Z21 (MOV)	P	3921	A2244 (MOV)	T
3836	Z21 MET (MOV); CV1018	P	3923	CS37A (AEI-BTH)	SD
3837	Z21 (MOV); CV1049	P	3924	6AC7W (Am.)	TX
3838	Z62 (MOV); CV1192	P	3927	12K8GT (Am.); BEL	P
3839	Z66 (MOV)	P	3928	5636 (Am.); EF730 (Mul.)	P
3841	6F1 (AEI)	P	3929	5840 (Am.); EF732 (Mul.)	P
3845	KU54 (Cos.)	RR	3930	5718 (Am.); EC71 (Mul.)	T
3881	EB41 (Mul.)	DD	3931	5906 (Am.)	P
3882	EBC41 (Mul.); 6LD3 (AEI); 6CV7 (Am.)	DDT	3932	5977 (Am.)	T
3883	EAF42 (Mul.); 6CT7 (Am.)	DP	3933	5783 (Am.); 85A3 (Mul.)	VS
3884	ECC40 (Mul.)	TT	3934	1N34A (Am.)	SD
3885	EF40 (Mul.)	P	3935	14A7 (Am.)	P
3886	EF41 (Mul.); 6C15 (Am)	P	3936	1457 (Am.); BEL	TH
3887	EF42 (Mul.)	P	3937	14R7 (Am.)	DDP
3888	ECH42 (Mul.); 6CV7 (Am.)	TX	3938	12CS7GT (Am.)	TT

Service Valve Equivalents

CV No.	Commercial Equivalent and Manufacturer	Type of Valve or Tube	CV No.	Commercial Equivalent and Manufacturer	Type of Valve or Tube
3939	6BM6A (Am.); CV3615	VM	4014	6064 (BEL); M8083 (Mul.); 4014 (MOV)	P
3940	2C39 (Am.); CV2516	T	4015	6065 (BEL); M8161 (Mul.); QA2400 (MOV)	P
3943	5852 (Am.)	RR	4016	5814 (Am.)	TT
3946	3WPI (Am.); DG7-36 (Mul.)	CR	4017	5751 (Am.)	TT
3960	5783WA (Am., Mul.); CV4066	VS	4018	5727 (Am.); M8204 (Mul.)	Th
3961	6111 (Am.)	TT	4019	6005 (Am.); M8245 (Mul.)	T
3978	6AG7Y (Am.)	P	4020	QA2WA (Am., EEV); M8223 (Mul.); QS1210 (MOV, EEV)	VS
3979	OD3W (Am.)	VS	4022	6135 (Am.)	T
3980	12SR7GT (Am.)	DDT	4023	6AU6WA (Am.)	P
3983	125WGT (Am.)	TT	4024	6060 (BEL); 12AT7WA (Am.); M8162 (Mul.); QA2406 (MOV)	TT
3985	6SL7WGT (Am.)	TT	4025	6058 (Am., BEL); M8079 (Mul.); QA2404 (MOV)	DD
3986	6021 (Am., Mul.)	TT	4026	5R4WGA (Am.)	RR
3988	6442 (Am.); ECC70 (Mul.)	TT	4027	5Y3WGT (Am.)	RR
3989	6AN4 (Am.)	T	4028	OB2WA (Am.); M8224 (Mul.); QS1211 (MOV, EEV)	VS
3990	2E26 (Am.); QVO5-10 (Mul.)	Q	4029	5902 (Am., Mul.)	P
3991	4X150D (Am., STC); QVO1-150D (Mul.)	Q	4030	G75/3G (STC)	VS
3995	6CB6 (Am., Mul.)	Q	4031	6101/616WA (Am.); M8081 (Mul.)	TT
3996	U709 (MOV)	P	4032	5814WA (Am.)	TT
3998	5A1170K (STC); E180F (Mul.) (MOV); 6688 (Am.)	RR	4033	F16060 (BEL); M8144 (Mul.)	TT
4001	F16063 (BEL) (MOV)	RR	4034	F16067 (BEL); M8149 (Mul.)	TT
4002	F16064 (BEL); M8140 (Mul.) (MOV)	P	4035	F16057 (BEL); M8214 (Mul.)	TT
4003	6067 (BEL); M8136 (Mul.)	TT	4036	M8141 (Mul.)	TT
4004	6057 (BEL); M8137 (Mul.)	TT	4037	F15750 (BEL)	R
4005	6063 (BEL); QA2407 (MOV)	RR	4038	E2359 (MOV); CV4079	H
4006	6059 (BEL)	P	4039	6062 (BEL); M8096 (Mul.)	Th
4007	5726 (Am., BEL); M8212 (Mul.)	DD	4040	S6F17 (AEI)	P
4008	5719 (Am.)	T	4041	S6F17F (AEI)	P
4009	5749 (Am., BEL)	P	4042	S19G6F (AEI)	R
4010	5654 (Am.); M8100 (Mul.)	P	4043	6061 (BEL)	Q
4011	5725 (Am., BEL); M8196 (Mul.)	P			
4012	5750 (Am., BEL)	P			
4013	5670 (Am.)	TT			

Service Valve Equivalents

CV No.	Commercial Equivalent and Manufacturer	Type of Valve or Tube	CV No.	Commercial Equivalent and Manufacturer	Type of Valve or Tube
4044	M8091 (Mul.); 6443 (BEL)	R	4077	SX643 (GEC); ZS21	SR
4045	F16051 (BEL)	Q	4078	SX644 (GEC); ZS22	SR
4046	TT15 (Reliable) (MOV)	QQ	4079	A2293 (MOV)	T
4047	G400/2G (STC)	VS	4080	75C1; M8225 (Mul.)	VS
4048	M8098 (Mul.); Q51212 (EEV, MOV)	VS	4081	A2688 (MOV)	T
4049	F15726 (BEL); M8237 (Mul.)	DD	4082	A2426 (MOV)	Q
4050	M8180 (Mul.)	P	4083	CV2209	P
4051	F16158 (BEL)	TT	4084	CV131	P
4052	Q51202 (EEV, MOV)	VS	4085	M8195 (Mul.)	P
4053	Q51203 (EEV, MOV)	VS	4086	EF86 (Reliable) (Mul.)	P
4054	M8142 (Mul.); Q51213 (EEV, MOV)	VS	4098	5725/6AS6W (Am.); M8234 (Mul.)	P
4055	6132 (BEL)	P	4100	OA2WA (Am.); M8223 (Mul.)	VS
4056	F16132 (BEL)	P	4101	OB2WA (Am.); M8224 (Mul.)	VS
4058	M8080 (Mul.)	DT	4104	M8163 (Mul.)	T
4059	M8097 (Mul.)	Q	4105	A2744 (MOV)	TT
4060	S11E12 (AEI)	R	4107	A2913 (MOV)	TT
4061	U37 (Reliable) (MOV)	Q	4108	7308 (Am.)	TT
4062	A2134 (Reliable) (MOV)	P	4109	7308 (Am.) Flying leads	TT
4063	6516 (BEL); M8082 (Mul.)	P	4110	7308 (Am.) low noise	TT
4064	S6F33 (AEI)	P	4111	7308 (Am.) low noise Flying leads	TT
4065	A2134 (Reliable) (MOV)	P	4113	CV4003 gold plated pins	TT
4066	M8190 (Mul.); 5783WA (Am.)	VS	4114	CV4014 gold plated pins	P
4067	F17001 (BEL); M8167 (Mul.)	Q	4115	CV4020 gold plated pins	VS
4068	6158 (BEL)	TT	4116	CV4071; UR45 (Fer.)	R
4069	F16158 (BEL)	TT	4118	CV4048 gold plated pins	VS
4070	M8099 (Mul.)	T	4119	CV4055 gold plated pins	P
4071	CV404	R	4501	CV465 F/L; 7432 (Am.)	P
4072	CV4071	R	4502	CV466 F/L; 7433 (Am.)	P
4073	SX641 (GEC); ZS10	SR	4503	CV472 F/L; 7434 (Am.)	P
4074	SX647 (GEC); ZS20	SR	4504	CV469 F/L; 7435 (Am.)	D
4075		R	4505	CV473 F/L; 7436 (Am.)	R
4076	M8179 (Mul.)	TT	4506	CV475 F/L	P

Service Valve Equivalents

CV No.	Commercial Equivalent and Manufacturer	Type of Valve or Tube	CV No.	Commercial Equivalent and Manufacturer	Type of Valve or Tube
4507	CV468 F/L; 7437 (Am.)	T	5040	6BQ6/GT (Am.)	Q
4508	CV467 F/L; 7438 (Am.)	P	5041	6CL6 (Am.)	P
4509	F3A1 ...	T	5042	12BH7 (Am.) BEL	T
4510	F3A2 ...	T	5043	811A (Am.) ...	T
4516	CV4066 F/L	VS	5052	6AU7 (Am.)	T
4517		P	5055	EM81 (Mul.); 6DA5...	T
4518		P	5056	A2094 (MOV)	P
4519	CV2387 F/L	P	5057	5702WA (Am.)	P
4520	CV4038	VS	5058	5784WA (Am.)	P
4523	CV474 F/L	Th	5059	5829WA (Am.)	DD
5001	601C (Am.)	SD	5060	Z759 (MOV); CV5325; Z759S (MOV)	P
5004	3JP2 (Am.)	CR	5061	7YPI (Am.) ...	CR
5005	6110 (Am.)	DD	5062	5841 (Am.) ...	VS
5007	6112 (Am.)	TT	5063	IN70 (Am.); CV2924	SD
5008	6080WA (Am.) (MOV)	TT	5064	IN38A (Am.); CV2962	SD
5009	6203 (Am.)	RR	5065	6U8 (Am.); 6U8/ECF82 (Mul.)	TP
5012	IN23C; IN23E (Am.); CV5153	SD	5067	6SH7L (Am.)	P
5013	IN23CR (Am.)	SD	5068	ES75H (STC)	T
5014	IN78 (Am.)	SD	5072	EZ81 (Mul.); 6CA4 (Am.)	T
5015	IN53 (Am.)	SD	5073	6AM4 (Am.)	T
5016	IN32 (Am.)	SD	5074	6AF4A (Am.)	T
5021	6V3A (Am.)	RR	5075	622C (Am.)	SD
5022	CS31A (AEI) (BTH)	SD	5076	IN198 (Am.); CV7041	SD
5026	IN320 (Am.)	SD	5077	PL81 (Mul.); 21A6 (Am)	P
5029	614WA (Am.); M8232 (Mul.)	T	5078	XC17 (Hiv.)	VS
5030	26Z5W (Am.)	R	5080	EF37A (Mul.)	P
5032	IX2A (Am.); CV5427	R	5081	6ISPT (Cos.)	P
5035	SADP31 (MOV); DG13-34 (MOV)	CR	5082	M8234 (Mul.)	P
5036	6AF4 (Am.)	T	5083	CV284	VS
5037	6BA6W (Am.)	P	5085	27MZ (BEL); CV337	P
5038	6BC4 (Am.)	TT	5086	6BS7 (Am.)	VS
5039	6BL7 (Am.)	TT	5088	XC15 (Hiv.)	VS

Service Valve Equivalents

CV No.	Commercial Equivalent and Manufacturer	Type of Valve or Tube	CV No.	Commercial Equivalent and Manufacturer	Type of Valve or Tube
5092	ER800 (Mul.)...	P	5146	5814 (Am.); CV4016	TT
5093	EL803 (Mul.)...	P	5148	IN21D (Am.)	SD
5094	EL86 (Mul.); 6CW5 (Am.)	P	5149	IN191 (Am.)	SD
5095	GK2261	SD	5156	EF89 (Mul.); 6DA6 (Am.)	P
5096	GK2401	SR	5157	DP13-2 (Mul.); CV3954	CR
5098	ZS21 (Fer.); CV4077	SR	5164	MM13-10 (Mul.)	CR
5099	ZS22 (Fer.); CV4078	SR	5166	5670WA (Am.); CV4013	TT
5103	ZS20B (Fer.); CV4074	SR	5171	DP7-5 (Mul.)	CR
5104	GEX541 (Mul.); CV7122	SR	5172	DK92 (Mul.); IAC6 (Am.)	I
5105	OC45 (Mul.); CV7004	ST	5173	90C1 (Mul.)	VS
5106	EIT (Mul.); 6370	LI	5174	ZS10A (Fer.); CV4073	SR
5107	KD63 (Fer.)	VS	5175	ZS20A (Fer.); CV4074	SR
5108	EP60 (Philips)	P	5177	IN127 (Am.)	SD
5109	GE10 (Fer.)	P	5178	IN120 (Am.)	SD
5110	CV1053	D	5179	IN220 (Am.)	SD
5112	3A/167M (STC)	T	5180	IN254 (Am.); CV7032	SR
5115	X79 (MOV)	TH	5181	SR4GY (Am.) (MOV); CV717	RR
5116	3B/241M (STC)	T	5182	6AN5WA (Am.); CV2854	Q
5118	6L6Y (Am.); CV1948	CR	5183	6C4WA (Am.); CV4058; M8080 (Mul.)	T
5119	CV2965	CR	5184	6CD6GA (Am.)	P
5120	20CV (Mul.)	PC	5185	6X4WA (Am.); CV4005	RR
5122	Z900T (Mul.); 5823 (Am.)	Th	5186	5651WA; 5651 (Am.); CV4048	VS
5124	R522A (STC); CV7022	SR	5187	6336 (Am.)	TT
5125	5ADP7 (MOV) (Am.); DP13-34 (MOV)	CR	5188	5687WA (Am.); EI82CC (Mul.); CV2578	TT
5126	6A14 (Am.)	T	5189	5726/6AL5W/6097 (Am.); CV4007	DD
5127	G7A (Am.)	VS	5190	6AO5/6005 (Am.); M8245 (Mul.); CV4019	Q
5132	CV4104; M8163 (Mul.)	VS	5191	2X103G (STC)	TT
5133	Atlas Pigmy lamp	VS	5192	PCCB4 (Mul.); 7AN7 (Am.)	TT
5140	EA52 (Mul.); 6923 (Am.)	D	5193	25M15 (Am.)	D
5143	GC10D (Eric.)	LI	5196	HD6616 (Am.)	SD
5144	PCL83 (Mul.)	TP	5197	IN540 (Am.); CV7028	SR
5145	GEX45/1 (GEC); CV425	SD	5198	IN459 (Am.)	SD

Service Valve Equivalents

CV No.	Commercial Equivalent and Manufacturer	Type of Valve or Tube	CV No.	Commercial Equivalent and Manufacturer	Type of Valve or Tube
5199	SV15 (Am.) ...	...	5256	U25 (BEL) ...	R
5201	ZS10B (Fer.); CV4073	...	5257	U26 (BEL) ...	R
5202	IS405 (Tex.); CV7034	...	5258	U191 (BEL) ...	R
5208	SJ301A (AEI) (BTH); SJDX/113/B4	...	5259	U329 (MOV) ...	TP
5212	I2AT7WA (Am.); CV4024	...	5260	10C2 (BEL) ...	TT
5213	IN82A (Am.) ...	...	5261	20L1 (BEL) ...	TT
5214	E90CC (Mul.); 5920 (Am.)	...	5262	20P3 (BEL) ...	TT
5215	ECF80 (Mul.); 68L8 (Am.)	...	5263	20P4 (BEL) ...	TT
5216	5654 (Am.); 6AK5; CV4010	...	5264	30L2 (BEL) ...	P
5217	XC23 (Hiv.) ...	...	5265	30P4 (BEL) ...	T
5220	KT88 (MOV) ...	...	5266	30P12 (BEL) ...	Q
5222	Z2A47 (STC); CV7092	...	5269	DG7-6 (MOV) ...	Q
5224	6481/5767 (Am.) ...	...	5270	SJ102B, see CV7026	CR
5225	UR30 (Fer.) ...	...	5271	SJ102A, see CV7031	SD
5226	UR40 (Fer.) ...	...	5272	SJ202A, see CV7032	SZ
5229	GD90 (Fer.) ...	...	5273	SJ402A, see CV7033	LI
5231	E88CC (Mul.) (MOV) ...	...	5275	RS55A (STC) ...	LI
5233	EL32 (Mul.); CV1052	...	5276	KS15 selected	SZ
5234	XRI-1600A (Mul.); 8063 (Am.); CV3706...	...	5277	ET51 (Mul.); 6700 (Am.)	LI
5236	IN462 (Am.) ...	...	5278	Z520M (Philips)	LI
5237	GA1 (STC) ...	...	5279	Z551 (Fer.) ...	SZ
5238	GA2 (STC) ...	...	5280	AL6 ...	SR
5240	GN10 (Fer.) ...	...	5281	ECC84 (Mul.); 6CW7 (Am.)	TT
5242	A2599 (MOV) ...	...	5282	AL13-36 (MOV) ...	CR
5243	GC12/48 (Eric.) ...	...	5285	CV4048 ...	VS
5244	MB13-1 (Mul.); 5FP11 (Am.)	...	5286	RS32A (STC) ...	SR
5250	RS52A (STC) ...	...	5287	6U4GT (Am.) ...	D
5251	Z2A51 (STC) ...	...	5288	Z2A91 (STC); CV5340	SZ
5252	SJ052B; SJ052F (AEI)	...	5294	IN277 (Am.) ...	SD
5253	SJ401B; SJ401F (AEI)	...	5295	IN457 (Am.) ...	SD
5254	VR575BB (AEI) (BTH)	...	5296	IN458 (Am.) ...	SD
5255	VR7B (AEI) (BTH) ...	...	5297	G55/1K (STC) ...	VS

CV No.	Commercial Equivalent and Manufacturer	Type of Valve or Tube	CV No.	Commercial Equivalent and Manufacturer	Type of Valve or Tube
5299	CCIL (Hiv.)	...	5341	Z2A110 ± 5% (STC)	SZ
5300	2273P (MOV); AL22-10 (MOV)	...	5342	S1301B (AEI) (BTH)	SR
5301	4GB (Plessey); CV7028	...	5343	CV2131	SR
5302	3AFPI (Am.); DH7-91 (MOV)	...	5344	IS401 (Tex.)	SR
5303	IN358 (Am.)	...	5345	IS401R (Tex.)	SR
5304	6463 (Am.)	...	5346	RS52AFJ (STC)	SR
5305	IN547 (Am.)	...	5347	SX645 (Mul.)	SR
5306	6L6GT (Am.)	...	5350	ZB (Brush)	SZ
5307	CV124 (Matched pairs)	...	5351	G10/200E (STC)	LI
5308	OAZ203 (Mul.)	...	5352	OC470 (Mul.)	ST
5309	V15/20P (Pye)	...	5353	XS101 (AEI) (BTH)	ST
5310	27M13 (BEL)	...	5354	7308 (Am.); E188CC (Mul.); CV4108	TT
5311	6L4WA (Am.)	...	5358	ECC88 (Mul.); 6D18 (Am.)	TT
5316	Z2A130 (STC)	...	5359	25001 (Tex.)	ST
5317	I2AH8 (STC)	...	5360	SZ27C (Mul.)	SZ
5318	SVC11-15 (Mul.)	...	5361	KS42A (Fer.)	SZ
5321	2N456 (Am.)	...	5365	6BQ7A (Am.) (Mul.)	TT
5322	TS10 (STC)	...	5366	IS5018RA (Tex.)	SZ
5325	Z759 (MOV)	...	5367	IS916 (Tex.)	SD
5326	V30/201P (Pye)	...	5370	CG50H (AEI) (BTH)	SR
5327	OC35 matched pair (Mul.)	...	5371	ZR10T (Fer.)	SR
5328	OC28 matched pair (Mul.)	...	5372	ZR10TR (Fer.)	SR
5329	V10/50A (Pye)	...	5376	ZR32P (Fer.)	SR
5330	ECC189 (Mul.); 6ES8 (Am.)	...	5377	Special CV4014 (Mul.); MOV, BEL	P
5331	OC450 (Mul.)	...	5378	OAZ202 (Mul.)	SZ
5334	SA495 (Semiconductors)	...	5379	OAZ205 (Mul.)	SZ
5335	RS35A (STC)	...	5383	2N458 (Am.)	ST
5336	OC73 (Mul.)	...	5384	XCI2T (Hiv.)	ST
5337	Z2A63 ± 5% (STC)	...	5385	DD326 (Lucas)	SR
5338	Z2A75 ± 5% (STC)	...	5388	VR575A-B (AEI-BTH)	SZ
5339	Z2A91 ± 5% (STC)	...	5389	MW13-35 (MOV)	CR
5340		...	5390	6213 (Am.); CK6213	VS

Service Valve Equivalents

CV No.	Commercial Equivalent and Manufacturer	Type of Valve or Tube	CV No.	Commercial Equivalent and Manufacturer	Type of Valve or Tube
5391	6072 (Am.) ...	TT	5444	IS5015C (Tex.)	SZ
5393	IN1130 (Am.); CV5935	SR	5445	NKT203 (Pye)	ST
5394	Z6 (Brush) ...	SZ	5446	KR57 (Fer.) ...	SR
5395	RS35BF (STC); CV5336	SR	5447	DA000 (Lucas)	SZ
5396	35004 ...	ST	5448	KS40A (Fer.)	SZ
5397	EC157 (Mul.)	T	5449	ASZ20 (Mul.)	ST
5400	DET29M (MOV)	T	5450	6AH6WA (Am.)	P
5409	9D7 (BEL) ...	P	5451	7320 (Am.); CV2975	P
5410	IN55B (Am.)	SD	5452	3ACPIA ...	CR
5411	GET110 Matched pairs	ST	5457	OC70 (Mul.)	ST
5413	A2913 (MOV); CV4107	T	5458	TD03-10E (Mul.)	T
5414	RS25A (STC)	SR	5459	GET104 (Mul.)	ST
5415	Z2A150AF ...	SZ	5460	IS5000-2 (Tex.)	SZ
5416	OC86 (Mul.)	ST	5461	IS5000-3 (Tex.)	SZ
5419	IN58A (Am.)	SD	5464	E188CC (Mul.)	TT
5420	SV1064 ...	SD	5465	2G224 (Tex.); 2N512A (Am.)	ST
5421	IS115 (Tex.)	SR	5468	IN204 (Am.)	SD
5422	IN263 (Am.)	SD	5478	IN39B (Am.)	SD
5423	IS302 (Tex.)	SD	5479	IN67 (Am.)	SD
5424	IN660 (Am.)	SD	5480	IN78A (Am.)	SD
5425	10G4 (Plessey) ...	SR	5481	IN126A (Am.)	SD
5427	R19 (STC); CV5032	R	5482	IN251 (Am.)	SD
5429	SX754 (Mul.)	SR	5483	IN252 (Am.)	SD
5430	2C39A (Am.)	T	5484	IN253 (Am.)	SD
5431	DD323 (Lucas)	SR	5485	IN270 (Am.)	SD
5432	OC35 Matched pairs (Mul.)	ST	5486	IN281 (Am.)	SD
5433	SVC21 (Mul.); CV5318	SVC	5487	IN429 (Am.)	SZ
5434	EM84 (Mul.); 6FG6 ...	TI	5488	IN461 (Am.)	SD
5435	SCI1100 (MOV)	VS	5489	IN468A (Am.)	SZ
5436	SCI1500 (MOV)	VS	5490	IN470A (Am.)	SZ
5439	OC75 (Mul.)	ST	5491	IN538 (Am.)	SR
5440	8GB (Plessey)	SR	5492	IN560 (Am.)	SR

Service Valve Equivalents

CV No.	Commercial Equivalent and Manufacturer	Type of Valve or Tube	CV No.	Commercial Equivalent and Manufacturer	Type of Valve or Tube
5493	IN562 (Am.)	SR	5620	2N78 (Am.) ...	ST
5494	IN627 (Am.)	SD	5621	2N144 (Am.)	ST
5495	IN629 (Am.)	SD	5622	2N158 (Am.)	ST
5496	IN645 (Am.)	SD	5623	2N247 (Am.)	ST
5497	IN647 (Am.)	SD	5624	2N274 (Am.)	ST
5498	IN649 (Am.)	SD	5625	2N332 (Am.)	ST
5499	IN661 (Am.)	SD	5626	2N337 (Am.)	ST
5519	CV417 matched pairs	T	5627	2N339 (Am.)	ST
5526	CV425 selected	SD	5628	2N344 (Am.)	ST
5527	ZS10B matched pairs	SD	5629	2N357 (Am.)	ST
5528	CV4002 matched pairs	P	5630	2N384 (Am.)	ST
5529	CV4503 selected	P	5631	2N404 (Am.)	ST
5530	CV4503 selected	P	5632	2N457 (Am.)	ST
5531	CV4503 selected	P	5633	2N458 (Am.)	ST
5601	IN662 (Am.)	SD	5634	2N489 (Am.)	ST
5602	IN926 (Am.)	SD	5635	2N491 (Am.)	ST
5603	IN935A (Am.)	SZ	5636	2N498 (Am.)	ST
5604	IN1145 (Am.)	SR	5637	2N542 (Am.)	ST
5605	IN1202 (Am.)	SR	5638	2N550 (Am.)	ST
5606	IN1315A (Am.)	SZ	5639	2N585 (Am.)	ST
5607	IN1317A (Am.)	SZ	5640	2N627 (Am.)	ST
5608	IN1373R (Am.)	SZ	5641	2N651 (Am.)	ST
5609	IN1487 (Am.)	SR	5642	2N670 (Am.)	ST
5610	IN1491 (Am.)	SR	5643	2N674 (Am.)	ST
5611	IN1492 (Am.)	SR	5644	2N697 (Am.)	ST
5612	IN1731 (Am.)	SR	5645	2N1044-1 (Am.)	ST
5613	IN2035 (Am.)	SZ	5646	2N1100 (Am.)	ST
5614	IN2102 (Am.)	SD	5647	2N1131 (Am.)	ST
5615	IN2167A (Am.)	SZ	5648	2N1139 (Am.)	ST
5616	IN2621A (Am.)	SZ	5649	2N1184 (Am.)	ST
5617	IN3020B (Am.)	SZ	5650	2N1196 (Am.)	ST
5618	IN3043B (Am.)	SZ	5651	2N1285 (Am.)	ST

Service Valve Equivalents

CV No.	Commercial Equivalent and Manufacturer	Type of Valve or Tube	CV No.	Commercial Equivalent and Manufacturer	Type of Valve or Tube
5652	2N1149 (Am.)	ST	5738	OA31 (Mul.)...	SR
5653	2N1150 (Am.)	ST	5739	ZW2	SD
5654	2N1152 (Am.)	ST	5740	OC202 (Mul.); CV7347	ST
5655	2N1155 (Am.)	ST	5741	Z2A43F (STC)	SZ
5656	GEX64/4 Matched set of 4 (Mul.)	SD	5743	IN2375 (Am.)	SR
5658	MZ10; IN1512	SZ	5745	GZ33 (Mul.)	RR
5661	2N1253 (Am.)	ST	5754	TD04-20A (Mul.)	T
5662	IS601 (Tex.)...	SR	5759	Q/DET24 (MOV)	T
5663	2N502 (Am.)	ST	5761	2N1132 (Am.)	ST
5664	IN220-1 (Am.)	SD	5762	2N601 (Am.)	ST
5667	IN1321 (Am.)	SZ	5763	I2AT7WB (Am.)	TT
5672	PS1050 (Am.)	SR	5766	E182CC (Mul.)	TT
5676	PS1405 (Am.)	SD	5767	IN554 (Am.)	SR
5679	PS2072 (Am.)	ST	5771	PS721 (Am.)	SD
5681	50M6225 (Am.)	SZ	5773	2N174 (Am.)	ST
5685	50M91Z (Am.)	SZ	5775	2N1136B (Am.)	ST
5686	HD2120 (Am.)	SD	5778	2N525 (Am.)	ST
5687	PS6315 (Am.)	SZ	5781	2N35 (Am.) ...	ST
5694	DD000 (Lucas); CV7395	SR	5782	2N440 (Am.)	ST
5702	DD006 (Lucas)	SR	5784	2N377 (Am.)	ST
5703	2N173 (Am.)	ST	5785	2N169A (Am.)	ST
5705	KR52 (Fer.)	SZ	5789	2N333 (Am.)	ST
5706	KR58 (Fer.)	SZ	5790	IS405A (Tex.)	SR
5707	IZ27 ± 5%; CV7427	SZ	5791	V30/20DP (Pye)	ST
5710	OC44 (Mul.); CV7003	ST	5792	2S702 (Tex.)	ST
5711	OC77 (Mul.); CV7007	ST	5793	SADP2 (MOV); CV5035	CR
5712	OC71 (Mul.); CV7005	ST	5794	KS30A (Fer.)	SZ
5713	OC72 (Mul.); CV7006	ST	5795	KS31A (Fer.)	SZ
5719	6CD6G (Am.)	P	5796	KS32A (Fer.)	SZ
5723	2N277 (Am.)	SR	5797	KS34A (Fer.)	SZ
5734	IN2071 (Am.)	SR	5798	KS36A (Fer.)	SZ
5737	IN1199 (Am.)	SR	5799	KS37A (Fer.)	SZ

Service Valve Equivalents

CV No.	Commercial Equivalent and Manufacturer	Type of Valve or Tube	CV No.	Commercial Equivalent and Manufacturer	Type of Valve or Tube
5800	KS39A (Fer.)	SZ	5832	2N599 (Am.)	ST
5801	KS41A (Fer.)	SZ	5833	GET875 (Mul.)	ST
5802	KS43A (Fer.)	SZ	5842	GR10K (Eric.)	LI
5803	KS44A (Fer.)	SZ	5843	5965 (Am.)	TT
5804	OC170 (Mul.)	ST	5844	SC21300 (MOV)	VS
5805	2N1123 (Am.)	ST	5845	SIM 21 (low noise CV2154) (Mul.)	SD
5806	VR10E; VR10A	SZ	5846	S535G (Am.)	SD
5807	E55L (Mul.)	P	5847	QOV07-40 (Mul.)	QQ
5808	E810F (MOV)	P	5849	OC202 (Mul.) (Fer.)	ST
5810	EF184 (Mul.)	P	5851	OC203 (Mul.) (Fer.)	ST
5811	SCLP31	CR	5855	GET573 (GEC) (Fer.)	SD
5812	ZR32P	SR	5856	OA95 (Mul.) (Fer.)	ST
5813	OC123 (Mul.)	ST	5857	OC42 (Mul.) (Fer.)	ST
5814	TK30C	SZ	5858	OC201 (Mul.) (Fer.)	ST
5815	OAZ200 (Mul.)	SZ	5859	SAC42 (Fer.)	ST
5816	OAZ204 (Mul.)	SZ	5860	ZT23 (Fer.)	ST
5817	6BW7 (AEI)	P	5861	2G401 (Fer.)	ST
5818	ASZ23 (STC)	CR	5862	KS33A (Fer.)	ST
5819	12/03LB; 12/10LB (Fer.)	CR	5863	ZT21 (Fer.)	SZ
5820	Z700U (Mul.)	CCT	5864	OA47 (Mul.) (Fer.)	SD
5821	SX641 (Mul.)	SR	5865	OC205 (Mul.) (Fer.)	ST
5822	SX642 (Mul.)	SR	5866	CV4078 (Fer.)	SR
5823	SX643 (Mul.)	SR	5867	CV4074 (Fer.)	SR
5824	SX644 (Mul.)	SR	5868	IS303 (Tex.)	SR
5825	SV3415	SR	5869	(EMI)	SZ
5826	KS36A (Fer.)	ST	5870	S4AR2 (Westinghouse)	SD
5827	ZS24 (Fer.)	SZ	5872	OC139 (Mul.) (Fer.)	ST
5828	OAZ206 (Mul.)	SR	5873	OC140 (Mul.) (Fer.)	ST
5829	EL360 (Mul.)	SZ	5881	INI695 (Am.)	SD
5830	EF183 (Mul.)	P	5882	GEX34 (GEC)	SD
5831		P	5883	3AZP2 (MOV)	CR

Service Valve Equivalents

CV No.	Commercial Equivalent and Manufacturer	Type of Valve or Tube	CV No.	Commercial Equivalent and Manufacturer	Type of Valve or Tube
5884	SC/A10077 (GPO) ...	ST	5940	DP4-1 (Mul.)	CR
5885	TK42C (STC) ...	ST	5941	MX49 (EMI) ...	VS
5886	BSM61 ...	ST	5943	GV5A/1600 (Am.)	SD
5887	2N2048 (Am.) (Fer.)	ST	5944	IN21ER (Am.)	SD
5889	IN341 (Am.)	SD	5945	IN21EMR (Am.)	SD
5890	SZ20C (Mul.)	SZ	5946	MA421BMR (Am.)	SZ
5893	GL5654 (Am.)	P	5947	10Z24T2 (Int. Rect.)	TP
5894	GL5670 (Am.)	TT	5948	ECF804 (Mul.)	ST
5895	GL5750 (Am.)	P	5949	ZG220 (Am.)	SD
5898	IN1115 (Am.)	SR	5950	IS611 (Tex.) (Fer.)	SD
5902	GET104 (GEC) (Fer.)	ST	5951	CV7342 ...	SD
5904	ZS25 (Fer.)	R	5953	OA7 (Mul.)	T
5905	IN2379 (Am.)	SR	5954	IN813 (Am.)	ST
5906	EY81 (Mul.)	SR	5955	ZS50 (Fer.)	SD
5908	IN318 (Fer.)	VM	5956	TD03-10 (Mul.)	SD
5911	V271C/3M (STC)	ST	5960	CV7056 Selected	ST
5912	7360 (Am.) (MOV)	TH	5961	CV2371 Selected	P
5913	2N1718 (Am.)	TH	5962	TD03-10D (Mul.)	PM
5915	ECH21 (Mul.)	R	5963	PS2719 (Am.)	VS
5916	A296 (EEV) ...	SZ	5964	M8163 (Selected) (Mul.)	SZ
5928	KS35A (Fer.)	ST	5965	OAZ210 (Mul.)	CR
5929	V60/201P ...	SZ	5966	3AZP11 (MOV)	ST
5930	OAZ213 (Mul.)	SR	5967	2G403 (Tex.)	ST
5931	ZR31C (Fer.)	SR	5970	OC701K (Mul.)	SR
5932	ZR31CR (Fer.)	SR	5971	GJ1-G (Mod.) (AEI-BTH)	SR
5933	20AS (Semiconductors)	SR	5972	GJ1-G (Mod.) (AEI-BTH)	SR
5934	SJ302 B & F (AEI-BTH)	SR	5973	ZS308 (Fer.)	ST
5935	IN1131 (Am.)	CR	5974	2S102 (Tex.)	ST
5936	8/52LM (Fer.)	QQ	5975	2S103 (Tex.)	ST
5937	CV2797 Gold plated pins (Mul.)	QQ	5976	SVC11 (Mul.)	SVC
5938	CV2799 Gold plated pins (Mul.)	QQ	5978	2N1255 (Am.)	ST
5939	CV7419-1Z12T5 ...	SZ	5979	IN1148 (Am.)	SR

Service Valve Equivalents

CV No.	Commercial Equivalent and Manufacturer	Type of Valve or Tube	CV No.	Commercial Equivalent and Manufacturer	Type of Valve or Tube
5980	OC206 (Mul.)	ST	6019	D5AK1611 (20th Century)...	CR
5981	CV7127 Selected	SD	6027	I600G (MOV)	CR
5982	CV7105 Selected	SZ	6035	CV1736 (MOV)	T
5984	ORP11 (Mul.)	PC	6065	SCI/1600 (MOV)	VS
5986	6112 (Am.); CV5007	TT	6066	SCI/1800 (MOV)	VS
5989	E80CC (Mul.)	TT	6067	SCI/2000 (MOV)	VS
5993	CV4002 Matched pairs	P	6091	A2900 (MOV)	TT
5994	2G225 (Tex.)	ST	6094	DM160 (Mul.)	VI
5995	2S703 (Tex.)	ST	6095	3AFP31 (Am.)	VS
5996	2N1744 (Am.)	ST	6097	A2792 (MOV)	VS
5997	SX631 (Mul.)	SR	6196	I646G (MOV)	CR
5998	A292 (EEV)	R	6122	QY3-65 (Mul.)	Q
6003	K342 (EEV)	VM	6123	QZ06-20 (Mul.)	Q
6004	XC12 (Hiv.); Z303C (Mul)	VS	6125	S6SK-106 (20th Century)	CR
6016	CCT6 (MOV)	CCT	6137	4CX250B (MOV)	Q

CV No.	Commercial Equivalent and Manufacturer	Type of Valve or Tube	CV No.	Commercial Equivalent and Manufacturer	Type of Valve or Tube
7001	GET103 (GEC); P.O.3	ST	7009	GET110 (GEC)	ST
7002	GET116 (GEC); P.O.4	ST	7010	OC16 (Mul.) Replaced by CV7083-7086	ST
7003	GET874 (GEC); OC44 (Mul.); TK31C (STC)	ST	7011	V30/30P (Pye) Replaced by CV7115	ST
7004	GET873 (GEC); OC45 (Mul.); TK30C (STC)	ST	7012	V60/30P (Pye) Replaced by CV7116	ST
7005	GET103 (GEC); OC71 (Mul.); 2N280 (Am.)	ST	7013	ISI13 (Tex.)...	SR
7006	GET103 (GEC); OC72 (Mul.); 2N281 (Am.)	ST	7014	ZR20 (Fer.)	SR
7007	GET111 (GEC); OC77 (Mul.); 2N284A (Am.)	ST	7015	SX751 (GEC); ZR21 (Fer.)	SR
7008	GET106 (GEC)	ST	7016	SX752 (GEC); ZR22 (Fer.)	SR

Service Valve Equivalents

CV No.	Commercial Equivalent and Manufacturer	Type of Valve or Tube	CV No.	Commercial Equivalent and Manufacturer	Type of Valve or Tube
7017	SX753 (GEC); ZR23 (Fer.)	SR	7049	OAI0 (Mul.)...	SD
7018	ZR11 (Fer.)	SR	7050	SX781 (GEC)	SR
7019	ZR12 (Fer.)	SR	7051	SX780 (GEC)	SR
7020	ZR14 (Fer.)	SR	7052	SX781 (GEC)	SR
7021	SX631 (GEC); RS Series (STC/R)	SR	7053	SX782 (GEC)	SR
7022	SX632 (GEC); RS Series (STC/R)	SR	7054	OC23 (Mul.); GET572 (GEC)	ST
7023	SX634 (GEC); RS Series (STC/R)	SR	7056	25002 (Tex.)	ST
7024	SX636 (GEC); RS Series (STC/R)	SR	7057	25003 (Tex.)	ST
7025	SX638 (GEC); RS Series (STC/R)	SR	7058	25004 (Tex.)	ST
7026	ZR11 (Fer.); 1G8 (Plessey)	SR	7059	25005 (Tex.)	ST
7027	ZR12 (Fer.); 2G8 (Plessey); IS001 (Tex.)	SR	7060	25014 (Tex.)	ST
7028	ZR14 (Fer.); 4G8 (Plessey); IS003 (Tex.)	SR	7061	25012A (Tex.)	ST
7029	IS004 (Tex.); 6G8 (Plessey)	SR	7062	25017 (Tex.)	ST
7030	IS007 (Tex.); 8G7 (Plessey)	SR	7063	25018 (Tex.)	ST
7031	SI102A (AEI); IS401 (Tex.)	SR	7064	25019 (Tex.)	ST
7032	SI202A (AEI); IN254 (Tex.)	SR	7065	25020 (Tex.)	ST
7033	SI302A (AEI); IS403 (Tex.)	SR	7066	25013A (Tex.)	ST
7034	IS405 (Tex.)...	SR	7067	SX47 (GEC)	SZ
7035		SR	7068	SX51 (GEC)	SZ
7036	GI4M (AEI)	SD	7069	SX36 (GEC)	SZ
7037	GI6M (AEI)	SD	7070	SX62 (GEC)	SZ
7038	GI3M (AEI)	SD	7071	SX88 (GEC)	SZ
7039	GI5M (AEI)	SD	7072	SX75 (GEC)	SZ
7040	OA202 (Mul.); SX13 (GEC); IS121 (Tex.)	SD	7073	SX82 (GEC)	SZ
7041	OA95 (Mul.); IN618 (Am.)	SD	7074	GET103 (GEC)	ST
7042	GET872 (GEC); OC41 (Mul.); TK246 (STC)	ST	7075	OC201 (Mul.) (low noise)	ST
7043	OC200 (Mul.)	ST	7076	OA47 (Mul.)...	SD
7044	OC201 (Mul.)	ST	7077	ZR31 (Fer.)	SR
7045	IS111 (Tex.)	SR	7078	ZR32 (Fer.)	SR
7046	IS115 (Tex.)	SR	7079	ZR32 (Fer.)	SR
7047	OA5 (Mul.)	SD	7080	GET571 (GEC)	ST
7048	OA5 (Mul.); double ended	SD	7081	GET572 (GEC)	ST

Service Valve Equivalents

CV No.	Commercial Equivalent and Manufacturer	Type of Valve or Tube	CV No.	Commercial Equivalent and Manufacturer	Type of Valve or Tube
7082	GET573 (GEC)	ST	7114	OA211 (Mul.)	SD
7083	OC29 (Mul.)...	ST	7115	V30/30DP (Pye)	ST
7084	OC35 (Mul.)...	ST	7116	V60/30DP (Pye)	ST
7085	OC28 (Mul.)...	ST	7117	OC203 (Mul.)	ST
7086	OC36 (Mul.)...	ST	7118	XB114 (AEI)	ST
7087	GET875 (GEC)	ST	7119	ZS31; ZS31A (Fer.)	SD
7088	SVC1 (GEC)	SVC	7120	ZS32; ZS32A (Fer.)	SD
7089	OC171 (Mul.)	ST	7121	ZS34; ZS34A (Fer.)	SD
7090	Z2A33 (STC)	SZ	7122	GEX541 (GEC)	SD
7091	Z2A39 (STC)	SZ	7123	GEX542 (GEC)	SD
7092	Z2A47 (STC)	SZ	7124	HS30 (Am.)	SD
7093	Z2A56 (STC)	SZ	7125	HS31 (Am.)	SR
7094	Z2A68 (STC)	SZ	7126	HS32 (Am.)	SR
7095	Z2A82 (STC)	SZ	7127	HD2595 (Am.); 85PI; AAY12 (Mul.)	SD
7096	Z2A100 (STC)	SZ	7128	HG5004 (Am.); 85PI	SD
7097	Z2A120 (STC)	SZ	7129	OC71 (Mul.)	SP
7098	Z2A150 (STC)	SZ	7130	GEX23 (GEC); OA91 (Mul.); HG1006 (Am.)	SD
7099	IS7047 (Tex.)	SZ	7131	ZT20 (Fer.)	ST
7100	IS7051 (Tex.)	SZ	7132	ZT21 (Fer.)	ST
7101	IS7056 (Tex.)	SZ	7133	ZT22 (Fer.)	ST
7102	IS7062 (Tex.)	SZ	7134	ZT23 (Fer.)	ST
7103	IS7068 (Tex.)	SZ	7135	SR4201A (AEI)	SR
7104	IS7075 (Tex.)	SZ	7136	SR4401A (AEI)	SR
7105	IS7082 (Tex.)	SZ	7137	SR4501A (AEI)	SR
7106	IS7150 (Tex.)	SZ	7138	IS7033A (Tex.); HS7033 (Am); MR33H (AEI)	SZ
7107	TK23C (STC)	SD	7139	IS7036A (Tex.); HS7036 (Am); MR36H (AEI)	SZ
7108	GEM3 (GEC)	SD	7140	IS7039A (Tex.); HS7039 (Am); MR39H (AEI)	SZ
7109	GEM4 (GEC)	SD	7141	IS7043A (Tex.); HS7043 (Am); MR43H (AEI)	SZ
7110	GEX66 (GEC); CV2290	SD	7142	IS7091A (Tex.); HS7091 (Am); MR91H (AEI)	SZ
7111	OC139 (Mul.)	ST	7143	IS7100A (Tex.); HS7100 (Am); ZFB10 ...	SZ
7112	OC140 (Mul.)	ST	7144	IS7110A (Tex.); HS7110 (Am); ZFB11 ...	SZ
7113	OA210 (Mul.)	SD	7145	IS7120A (Tex.); HS7120 (Am); ZFB12 ...	SZ

Service Valve Equivalents

CV No.	Commercial Equivalents and Manufacturer	Type of Valve or Tube	CV No.	Commercial Equivalent and Manufacturer	Type of Valve or Tube
7146	IS7130A (Tex.); HS7130 (Am); ZFB13	SZ	7181	CV2355	SD
7147	CV7374	SD	7182	CV2356	SD
7148	CV7375	SD	7183	CV2357	SD
7151	BCY30 Series (Mul.); 2S300 Series low noise (Tex.)	ST	7184	MA393A (Semiconductors)	ST
7152	CV7117; T05 Package	SDN	7185	TK20C (STC)	ST
7153	JK20B (STC)	ST	7186	ZT45 (Fer.)	ST
7154	ZT43 (Fer.)	SZ	7187	ZT46 (Fer.)	ST
7155	VR35B	SZ	7188	OC205 (Mul.)	ST
7156	VR35B	SZ	7189	CV2154 Matched pair	SD
7157	VR425B	SZ	7190	DSIE (Fer.)	SSW
7158	VR475B	SZ	7191	DSIF (Fer.)	SSW
7159	VR525B	SZ	7192	DSIG (Fer.)	SSW
7160	VR575B	SZ	7193-7276	All types between these numbers are Zener Regulator Diodes.	
7161	VR625B	SZ	7277	Clipper Diodes.	
7162	VR7B	SZ	7310	CV7031 Replacement	SR
7163	VR8B	SZ	7311	CV7032 Replacement	SR
7164	VR9B	SZ	7312	CV7033 Replacement	SR
7165	VR9B; VR10B	SZ	7313	CV7034 Replacement	SR
7166	VR10B	SZ	7314	CV7035 Replacement	SR
7167	VR11B	SZ	7315	CV7311 Replacement	SR
7168	VR12B	SZ	7316	CV7312 Replacement	SR
7169	VR35B	SZ Rf	7317	CV7313 Replacement	SR
7170	VR425B	SZ Rf	7318	CV7314 Replacement	SR
7171	VR475B	SZ Rf	7319	CV7315 Replacement	SR
7172	VR525B	SZ Rf	7320	CV7006 Matched pair	ST
7173	VR575B	SZ Rf	7321	ZR20R (Fer.)	SR
7174	VR625B	SZ Rf	7322	ZR21R (Fer.)	SR
7175	VR7B	SZ Rf	7323	ZR22R (Fer.)	SR
7176	VR8B	SZ Rf	7324	ZR24R (Fer.)	SR
7177	VR9B	SZ Rf	7325	GET111 (GEC)	ST
7180	CV225B	SD	7326		

Service Valve Equivalents

CV No.	Commercial Equivalent and Manufacturer	Type of Valve or Tube	CV No.	Commercial Equivalent and Manufacturer	Type of Valve or Tube
7327	GET102 (GEC)	ST	7366	2S305 (Tex.)	ST
7328	2S104 (Tex.)	ST	7367	IS914 (Tex.)	SD
7332	OA202 (Mul.)	SD	7368	IS916 (Tex.)	SD
7333	2S025 (Tex.)	ST	7369	GEX23 (GEC)	SD
7334	2S076 (Tex.)	ST	7370	MDS33; 2N501	ST
7335	AFZ12 (Mul.)	ST	7371	ZT83 (Fer.)	ST
7336	2S131 (Tex.)	ST	7372	ZT84 (Fer.)	ST
7337	2S131 (Tex.)	ST	7373	ZT86 (Fer.)	ST
7338	ASZ21 (Mul.)	ST	7376	ACY17 (Mul.)	ST
7339	SAC42B	ST	7379-}	Rectifiers	SR
7340	SAC40	ST	7388	AAZ13 (Mul.)	SD
7341-}	BCY30 Series (Mul.); ZS300 Series (Tex.)	ST	7389	2G103 (Tex.)	ST
7346		ST	7390	2G110 (Tex.)	ST
7347	OC202 (Mul.)	ST	7391	GET116 (GEC)	ST
7348	2N1302 (Am.)	ST	7392	2G104 (2N705) (Am.)	ST
7349	2N1304 (Am.)	ST	7394	2N711 (Am.)	ST
7350	2N1306 (Am.)	ST	7395	DA000 (Lucas)	SR
7351	2N1308 (Am.)	ST	7396	2S307 (Tex.)	ST
7352	2N1303 (Am.)	ST	7397-}	IN950 to IN956 (Am.)	SVC
7353	2N1305 (Am.)	ST	7403	2N1893 (Am.)	ST
7354	2N1307 (Am.)	ST	7404		SZ
7355	2N1309 (Am.)	SR	7405-}	All these type Numbers are Zener diodes	ST
7356	IS117 (Tex.)	SR	7429	BSY26 (Mul.)	ST
7357	HTS10B (Am.)	SR	7430	BSY27 (Mul.)	ST
7358	CV7077 Reverse polarity	SR	7431	ZHS101 (Am.)	SR
7359	CV7078 Reverse polarity	SR	7432	ZS91 (Fer.)	SR
7360	CV7079 Reverse polarity	ST	7433	ZS92 (Fer.)	SR
7361	TK203A (STC)	ST	7434	ZS94 (Fer.)	SR
7362	TK253A (STC)	ST	7435	ACY18 (Mul.)	ST
7363	BCZ11 (Mul.)	SD	7436	ACY19 (Mul.)	ST
7364	AZA12 (Mul.)	ST	7437		ST
7365	GET115 (GEC)	ST			

Service Valve Equivalents

CV No.	Commercial Equivalent and Manufacturer	Type of Valve or Tube	CV No.	Commercial Equivalent and Manufacturer	Type of Valve or Tube
7438	ACY20 (Mul.)	..	8008	HD5002 (Am.)	SD
7439	ACY21 (Mul.)	..	8009	IS217A (Tex.)	SR
7440	2NI613 (Am.)	..	8010	IS403A (Tex.)	SR
7441	CV7077 (Mod.)	..	8011	IS403 (Tex.)	SR
7442	CV7078 (Mod.)	..	8012	IS404 (Tex.)	SR
7443	CV7079 (Mod.)	..	8013	ZL8 (Brush)	—
7444	CV7358 (Mod.)	..	8014	K544A (Fer.)	SZ
7445	CV7359 (Mod.)	..	8015	2S018 (Tex.)	ST
7446	CV7360 (Mod.)	..	8016	CS2A; CV103 (AEI-BTH)	SD
7447	BFY19 (Mul.)	..	8017	W77 (MOV); CV131; CV4015	P
7448	ASY60 (Mul.); TK25C (STC)	..	8018	N77 (MOV); CV136; CV4063	P
7449	2N457 (Am.)	..	8019	EAC91 (Mul.); CV137	DT
7450	IN459 (Am.)	..	8020	Z77 (MOV); CV138; CV4014	P
7451	2NI479 (Am.)	..	8021	D77 (MOV); CV140; CV4025; CV4007	DD
7452	2NI480 (Am.)	..	8022	HR2 (Fer.); CV261	R
7453	2NI481 (Am.)	..	8023	Q575/20 (MOV, EEV); CV284	VS
7454	2NI482 (Am.)	..	8024	27MI (BEL); CV337	PM
7455	2NI483 (Am.)	..	8025	12EI (STC, MOV); CV345	Q
7456	2NI484 (Am.)	..	8026	DET23 (MOV); CV354	T
7457	2NI485 (Am.)	..	8027	19G6 (BEL); CV371	R
7458	2NI486 (Am.)	..	8028	5B/255M (STC); CV391	Q
7459	CV7188 (Mod.)	..	8029	HR7 (Fer.); CV404; CV4071; CV4116	R
7460	AUY10 (Mul.)	..	8030	A1714 (MOV); CV408	T
7461	2S103 (Tex.)	..	8031	6F17 (BEL); CV416; CV4041	P
7462	2N2411 (Am.)	..	8032	CGI-E (AEI-BTH); CV425	SD
7463	2N2412 (Am.)	..	8033	5B/254M (STC); CV428	Q
7464	2N706A (Am.)	..	8034	Q575/60 (MOV, EEV); CV434	VS
7465	IN2373 (Am.)	..	8035	GEX37 (GEC); CV442	SD
8004	V30/20P (Pye)	..	8036	Q583/3 (AEI-BTH); CV448; CV7130	SD
8005	ZD515A (Lucas)	..	8037	QS83/3 (MOV, EEV); CV449; CV4048	VS
8006	ZS338 (Fer.)	..	8038	EL38 (Mul.); CV450	P
8007	OC702K (Brush)	..	8039	EF72 (Mul.); CV465	P

CV No.	Commercial Equivalent and Manufacturer	Type of Valve or Tube	CV No.	Commercial Equivalent and Manufacturer	Type of Valve or Tube
8040	EC70 (Mul.); CV468	T	8080	6158 (Am.); CV4088	TT
8041	EA76 (Mul.); CV469; CV4504	D	8081	M8195 (Mul.); CV4085	P
8042	3EG1 (Cin.); CV1526	CR	8082	Z759 (MOV); CV5060	P
8043	U41 (MOV); IB3GT (Am.); CV2115	R	8083	ZR14 (Fer.); CV7020	SR
8044	RK6112A (Am.); CV2116	VM	8084	RS21A (STC); CV7021	SR
8045	6CH6 (BEL); CV2127; CV4055	P	8085	IS111 (Tex.); CV7045	SR
8046	90CV (Mul.); CV2134	PC	8086	OA5 (Mul.); CV7047	SR
8047	6BR7 (BEL); CV2135; CV4006	P	8087	OA10 (Mul.); CV7049	SR
8048	6BW6 (BEL); CV2136; CV4043	Q	8088	SX56 (Mul.); CV7069	SZ
8049	SIM2 (GEC); CV2154; CV7108	SD	8089	A2293 (MOV); CV4079	T
8050	SIM5 (GEC); CV2155; CV7109	SD	8090	GRI0G (Erics.)	SZ
8054	6F33 (BEL); CV2209; CV4064	P	8099	OAZ211 (Mul.)	SR
8056	QS1200 (MOV, EEV); CV2225	VS	8100	RS20A (STC); CV7021	VS
8057	CS4-B (AEI-BTH); CV2258	SD	8101	XC12 (Hiv.); CV6004	Q
8058	U37 (MOV); CV2289; CV4061	R	8102	XFY-34 (Hiv.)	SR
8059	XB1 (Hiv.); CV2293	R	8103	ZS74 (Fer.)	—
8064	A2521 (MOV); CV2453; CV4105	T	8104	SZT2 (Mul.)	—
8065	E88CC (Mul., MOV); CV2492	TT	8105	GD10 (Erics.)	—
8066	QQV03-10 (Mul.); CV2798	QQ	8106	7077 (Am.)	—
8067	QQV03-20A (Mul.); CV2799	QQ	8107	7289 (Am.)	—
8068	EF86 (Mul.); CV2901	P	8108	3AZP31 (Mul.)	—
8069	EL84 (Mul.); CV2975	P	8109	3AZP7 (Mul.)	—
8070	6059 (Am.); CV4006	P	8110	BYZ11 (Mul.)	—
8071	Q/W77 (MOV); CV4015	P	8111	GET105 (GEC)	—
8072	M8214 (Mul.); CV4035	TT	8112	5AHP7A (Am.)	—
8073	6062 (Am.); CV4039	P	8113	5AHP19 (Am.)	—
8074	QS1212 (MOV, EEV); CV4048	VS	8114	7ABP7A (Am.)	—
8075	M8237 (Mul.); CV4049	DD	8115	7ABP19 (Am.)	—
8076	6132 (Am.); CV4055	P	8116	10WPT (Am.)	—
8077	S11E12 (STC); CV4060	Q	8119	2N1302 (Am.); CV7348	—
8078	Q/N77 (MOV); CV4063	P	8120	D1010 (Plessey)	—
8079	S6F33 (STC); CV4064	P	8121	DD003 (Lucas)	—

Service Valve Equivalents

CV No.	Commercial Equivalent and Manufacturer	Type of Valve or Tube	CV No.	Commercial Equivalent and Manufacturer	Type of Valve or Tube
8122	CS3-A (AEI-BTH)	SD	8169	QJ77 (MOV); CV4025; CV4007	DD
8123	M56B (Fer.)	—	8189	5R4GY (MOV, Am.)	RR
8124	PG50A (STC)	—	8190	6AH6 (Am.); 6AH6 (Am.); CV2521	P
8126	NKT124 (Pye)	ST	8191	6CL6 (Am.); 6CL6 (Am.); CV5041	P
8128	SZ12C (Mul.)	SZ	8192	6J4S (Am.); 6J4WA (Am.); CV5029	T
8130	ACY18 (Mul.)	ST	8195	40AS (Plessey)	SR
8134	AA12 (Mul.)	SD	8196	80AS (Plessey)	SR
8136	HS1009 (Am.)	SD	8198	5842 (MOV); CV3789	T
8137	HD6003 (Am.)	SD	8199	ISI13 (Tex.); CV7013	SR
8138	HD6576 (Am.)	SD	8200	6AL5 (Mul.); 5725 (Am.); CV4007	DD
8139	HD6008 (Am.)	SD	8201	6BE6 (Mul., BEL, Am.); CV453	H
8140	HR10251 (Am.)	—	8202	6BA6 (Mul., BEL, Am.); CV454	P
8142	3D21WA (Am.)	Q	8203	6X4 (Mul., MOV, Am.); CV493	RR
8143	CSI-N	SD	8204	5R4GY (Mul., MOV, Am.); CV4026	RR
8145	D4010 (Plessey)	SR	8205	6D4 (Am.)	Th
8147	D5000	SR	8206	5763 (BEL, Mul., Am.); CV4039	P
8150	GET880 (GEC)	ST	8207	2C39A (Am.)	T
8152	Q5150/40 (MOV, EEV); CV216	VS	8208	6AH6 (Am.); CV2521	P
8153	U54 (Mov); CV378	R	8209	6AS6 (Mul., Am.); CV4011	P
8154	B309 (MOV); CV455; CV4024; CV5212	TT	8210	6AU6 (Mul., Am.); CV2524	P
8155	B329 (MOV); CV491; CV4003	TT	8211	6AN5 (Am.); CV2854	P
8156	B339 (MOV); CV492; CV4004	TT	8212	IN25 (Am.); CV2918	Q
8157	Q5126 (MOV, EEV); CV686	VS	8213	IN69 (Am.); CV2923	SD
8158	EN91 (Mul.); CV797; CV4018	Th	8214	8020 (RCA); CV2967	R
8159	EF95 (Mul.); CV850; CV4010	P	8215	5656 (Am.); CV2970	Q
8160	ECC91 (Mul.); CV858; CV4031	TT	8216	6080 (Mul., MOV, Am.); CV2984	Q
8161	Q51207 (MOV, EEV); CV1832; CV4020	VS	8218	6146 (Mul., AEI, Am.); CV3523	Q
8162	Q51208 (MOV, EEV); CV1833; CV4028	VS	8219	3E29 (Mul., Am.); CV3599	Q
8163	CS108 (AEI); CV2154	SD	8220	6BL6 (Am.); CV3614	Q
8164	CS108R (AEI); CV2155	SD	8221	12AU7WA (Mul., Am.); CV4003	VM
8166	A1834 (MOV); CV2523	TT	8222	12AX7W (Mul., Am.); CV4004	TT
8168	Q1210 (MOV, EEV); CV4020	VS	8223	6X4W (MOV, Mul., Am.); CV4005	RR

CV No.	Commercial Equivalent and Manufacturer	Type of Valve or Tube	CV No.	Commercial Equivalent and Manufacturer	Type of Valve or Tube
8224	5726 (Am.); CV4007	DD	8347	OC201 (Mul.); CV7044; CV5884	ST
8225	6AK5W (Am.); CV4010	P	8354	OC170 (Mul.)	ST
8226	6A56W (Am., Mul.); CV4011	P	8355	OC22 (Mul.)	ST
8227	5720 (Mul., Am.); CV4012	H	8356	OC29 (Mul.); CV7083	SD
8228	2D21W (Mul., Am.); CV2876	Th	8357	SX782 (Mul.); CV7053	—
8229	6AQ5W (Am., Mul.); CV4019	P	8358	MA393 (Am.)	ST
8230	12AT7WA (Am., BEL); CV5212; CV4024	TT	8359	2G306 (Tex.)	ST
8231	616W—616WA (Am.); CV4031	TT	8360	ZT73 (Fer.); CV7134	ST
8232	6080WA (Mul., MOV, Am.); CV5008	TT	8361	2G104 (Tex.); CV7393	ST
8233	IN10 (Am.)	SD	8362	GET103 (GEC); CV7074	ST
8235	IN198 (Am.); CV5076	SD	8363	GET102 (GEC); CV7327	ST
8236	IN263 (Am.); CV5422	SD	8364	SX781 (Mul.)	—
8237	6X4 (Am., Mul., MOV); CV4005	RR	8366	GET573 (GEC); CV7082	ST
8238	705A (Am.)	R	8367	IS001 (Tex.); CV7027	SR
8242	GEX63 (GEC)	SD	8368	2G221 (Tex.)	ST
8243	OA70 (Mul.); CV442	SD	8369	2G240 (Tex.)	ST
8246	5654 (Am., Mul.); CV4010	P	8370	2S005 (Tex.); CV7059	ST
8247	5670 (Am., Mul.); CV4013	TT	8371	2N388 (Am.)	ST
8248	5750 (Am., Mul.); CV4012	H	8372	2G304 (Tex.)	ST
8252	OC42 (Mul.)	ST	8373	2S018 (Tex.); CV7063	ST
8259	ACY21 (Mul.)	ST	8374	ZR10 (Fer.)	SR
8263	5B/110M (STC)	P	8375	KS30A (Fer.)	SZ
8286	TT21 (MOV)	Q	8376	ZS34B (Fer.)	SD
8289	GEX34 (GEC)	SD	8377	ZS12 (Fer.)	SD
8314	OC76 (Mul.)	ST	8378	ZR11 (Fer.); CV7018; CV7026	SR
8332	OA90 (Mul.)	SD	8379	ZR22 (Fer.); CV7016	SD
8341	OC24 (Mul.)	ST	8380	GD70 (Fer.)	SD
8342	OC28 (Mul.); CV7085	ST	8382	6F10 (IRC)	SR
8343	OC44 (Mul.); CV7003; CV5710	ST	8383	6F10R (IRC)	SR
8344	OC71 (Mul.); CV7005; CV5712	ST	8384	CG83H (AEI)	SD
8345	OC140 (Mul.); CV7112	ST	8386	V15/201P (Pye)	ST
8346	OC77 (Mul.); CV7007	ST	8389	3N35 (Am.)	ST

Service Valve Equivalents

CV No.	Commercial Equivalent and Manufacturer	Type of Valve or Tube	CV No.	Commercial Equivalent and Manufacturer	Type of Valve or Tube
8393	25301 (Tex.)	ST	8564	SX634 (GEC)	SR
8394	SX640 (Mul.)	SR	8609	BFY16 (STC)	ST
8395	BAY31 (STC)	SR	8634	ECL83 (Mul.)	TP
8430	6BK4 (BEL)	VS	8638	AFZ12A (Mul.)	ST
8431	E180CC (Mul.)	TT	8694	EF98 (Mul.)	P
8433	PCF80 (Mul.)	TP	8697	E91H (Mul.)	H
8440	OC72 (Mul.)	ST	8757	EY84 (Mul.); R18 (BEL)	R
8441	OA79 Matched pairs (Mul.)	SD	8807	OC700 (Brush)	ST
8447	OC200 (Mul.)	ST	8816	4CX300A (Am.)	Q
8448	OC23 (Mul.)	ST	8966	OC139 (Mul.)	ST
8458	EL95 (Mul.)	P	8973	4CX250B (MOV, Am.)	Q
8460	EF804S (Mul)	P	9025	DF96 (Mul.)	H
8462	83A1 (Mul.)	VS	9026	DK96 (Mul.)	T
8480	OC36 (Mul.)	ST	9155	E88C (Mul.)	TP
8503	GEM1 (GEC)	SD	9167	ECL82 (Mul., BEL)	ST
8504	GEM2 (GEC)	SD	9264	OC35 (Mul.)	ST

CV & COMMERCIAL EQUIVALENTS OF ARMY, NAVY & R.A.F. TYPES

CV No.	Commercial Equivalent & Manufacturer	Type of Valve or Tube	Service Codes	CV No.	Commercial Equivalent & Manufacturer	Type of Valve or Tube	Service Codes
1023	230XP (Cos.)	T	VT23	1164	AC/SG (AEI)	Q	NR37
1027	210LF (Cos.); L210 (MOV)	T	VR27	1165	VMS4 (MOV)	Q	NR38
1028	220VSG (Cos.); S215VM (AEI)	T	VR29	1166	LP2 (MOV)	Q	NR42, AR5
1029	ESU150 (AEI)	Q	VU28	1167	PM24A (Mul.)	P	NR43
1038	MHL4 (MOV); 41MLF (Cos.)	R	VR38, NR26	1189	AC3Pen (AEI)	P	NR74
1041	PM12M (Mul.)	T	VR41	1190	AC4Pen (AEI)	P	NR75
1043	210PG (Cos.); VHT2A (Fer.); X22 (MOV)	Q		1196	AC5PenDD (AEI)	DDP	NR87
1045	X56 (MOV)	H	VR43	1198	AC4A (AEI)	T	NR94
1049	210SPT (Cos.); SP210 (AEI)	T	VT45	1201	4317 (Mul.)	V5	NS4
1050	HL2K (MOV)	P	VR49	1205	E1007 (MOV)	T	NT17
1051	Pen.220A (AEI); 220PT (Cos.)	T	VT50	1208	P625 (MOV)	T	NT20
1117	41MTL (Cos.)	P	VT51	1237	PM24D (Mul.)	P	NT62
1119	DDL4 (Cos.)	T	VR117	1319	V52 (Fer.)	Q	ARS8
1120	SU2150A (Cos.)	DD	VR119	1320	SP2 (Mul.)	P	ARP2
1124	MS/Pen (Cos.)	R	VU120, NU33	1322	SP210 (Mul.)	P	ARP4
1125	MS/Pen B (Cos.)	P	VR124, NR70, ARP23	1323	VP2 (Mul.)	P	ARP5
1126	4SH (Cos.)	P	VR125	1324	SP4 (Mul.)	P	ARP6
1129	MS/Pen/T (Cos.)	X	VR126	1325	42MPT (Cos.)	P	ARP7
1141	GDT4C (Cos.)	P	VR129	1326	AC4Pen (AEI)	P	ARP8
1143	GT1A (MOV)	Th	NGT1	1327	Pen 1340 (AEI); 7D8 (BEL)	P	ARP9
1152	L410 (MOV); PM4DX (Mul.); 410LF (Cos.)	Th	NGT4	1328	7D8S (BEL)	P	ARP9A
1153	PM254 (Mul.)	T	NR15A	1329	APP4G (Mul.)	P	ARPI0
1154	PM254 (Mul.)	T	NR16	1332	210VPT (Cos.); VP21 (MOV)	P	ARPI3
1156	DEQ (MOV)	T	NR16A	1333	220IPT (Cos.); Z22 (MOV)	P	ARPI4
1158	PM14 (Mul.)	T	NR18	1334	KT24 (MOV); Pen 231 (AEI)	P	ARPI8
1159	S410 (MOV); PM14 (Mul.)	Q	NR22	1337	116Pen (Cos.)	P	ARP22
1160	104V (Mul.)	Q	NR27	1338	220VPT (Cos.)	P	ARP24
1161	104V (Mul.)	T	NR27A	1341	MSP4 (MOV)	P	ARP33
1163	PM2BA (Mul.)	TT	NR35	1367	V245 (AEI)	P	ATP5
				1368	V226 (AEI)	P	ATP7
				1370	PVI-35 (Mul.)	P	ATP35

Note: CV and Commercial equivalents of Service types not in this list will be found in the CV/Commercial equivalent tables.

BRITISH ARMY VALVES

ACR	Army Cathode Ray Tube
AR	Army Receiving Valve
ARD	Army Receiving Diode
ARDD	Army Receiving Double Diode
ARH	Army Receiving Hexode
ARP	Army Receiving Pentode
ARS	Army Receiving Tetrode (Screen-Grid)
ARTH	Army Receiving Triode Hexode
ARTP	Army Receiving Triode Pentode
AT	Army Transmitting Triode
ATP	Army Transmitting Pentode
ATS	Army Transmitting Tetrode (Screen-Grid)
AU	Army Rectifier
AW	Army Gas Filled Valve (Stabilizer)

ROYAL NAVY VALVES

NC	Navy Cathode Ray Tube
NGT	Navy Gas Triode
NR	Navy Receiving
NS	Navy Stabilizing
NT	Navy Transmitting
NU	Navy Rectifying

ROYAL AIR FORCE VALVES

VCR	Valve Cathode Ray
VGT	Valve Gas Triode
VI	Valve Indicating
VR	Valve Receiving
VS	Valve Stabilizing
VT	Valve Transmitting
VU	Valve Rectifying

U.S. SIGNAL CORPS VALVES

G.P.O. - C.V. REFERENCES

BRITISH ARMY TYPES

Type No.	CV	Navy	R.A.F.	Type No.	CV	Navy	R.A.F.
AD1	1314	—	—	ARP11	1329	—	—
AR4	1303	—	—	ARP12	1331	—	—
AR5	1166	NR42	VR22	ARP13	1332	NR41	VR83
AR6	1304	NR42	VR22	ARP14	1333	—	—
AR7	1109	NR55	VR109	ARP15	1195	NR86	VT74
AR8	1306	—	—	ARP16	1074	NR83	—
AR9	1307	—	VR21	ARP17	1186	NR85	—
AR10	1308	—	—	ARP18	1334	—	VR65A
AR11	1309	—	—	ARP19	1335	—	—
AR12	1310	—	—	ARP20	1336	NR79	—
AR13	1311	—	—	ARP21	1192	—	—
AR14	1312	—	—	ARP22	1337	—	—
AR15	1313	—	—	ARP23	1124	NR70	VR124
AR16	1032	—	VR32	ARP24	1338	—	—
AR17	1037	NR31	VR37	ARP25	1181	—	—
AR20	1316	—	—	ARP26	1340	NR59	—
AR21	1055	NR48	VR55	ARP33	1341	—	—
AR22	1078	—	VR78	ARP34	1053	—	VR53
ARD4	1302	—	—	ARP35	1091	—	VR91
ARDD1	1300	—	—	ARP36	1065	—	VR65
ARDD3	1301	—	—	ARP37	1342	—	—
ARDD5	1054	—	VR54	ARP38	1343	—	—
ARH1	1280	NR67	—	ARS6	1317	—	—
ARPI	1118	NR39	VR118	ARS7	1318	—	—
ARP2	1320	—	—	ARS8	1319	—	—
ARP3	1321	—	VR106	ARTH1	1944	—	—
ARP4	1322	—	—	ARTH2	1347	—	—
ARP5	1323	—	—	ARTPI	1344	—	—
ARP6	1324	—	—	ARTP2	1345	—	—
ARP7	1325	—	—	AT20	1361	—	—
ARP8	1326	—	—	AT35	1025	—	VT25
ARP9	1327	—	—	AT75	1222	NT39	—
ARP10	1328	—	—	ATF4	1366	—	—

BRITISH ARMY TYPES—Cont.

Type No.	CV	Navy	R.A.F.	Type No.	CV	Navy	R.A.F.
ATP5	1367	—	—	AU4	1113	NU18	VU113
ATP7	1368	—	—	AU5	1111	—	VU111
ATP01	1369	—	—	AU6	1072	NU16	VU72
ATP35	1370	NT74	—	AU8	1356	—	—
ATP75	1371	NT38	—	AU12	2853	NU13A	—
ATP100	1372	—	—	AU13	—	NU20	—
ATS25	1374	—	—	AW2	1070	—	VS70
ATS25A	1364	—	—	AW3	1110	—	VS110
ATS70	1365	—	—	AW4	1068	—	VS68
AU1	1264	NU12	—	AW5	1359	—	—
AU3	1064	NU3	—	AW6	1077	—	V177
AU3A	1039	NU17	VU64 VU39				

ROYAL NAVY TYPES

Type No.	CV	Army	R.A.F.	Type No.	CV	Army	R.A.F.
NGT1	1141	—	—	NR55	1109	AR7	VR109
NGT2	1128	—	—	NR56	1178	—	—
NGT4	1143	—	—	NR57	1179	—	—
NR15	1151	—	—	NR58	1180	—	—
NR15A	1152	—	—	NR59	1181	ARP25	—
NR16	1153	—	—	NR60	1182	—	—
NR16A	1154	—	—	NR61	1183	—	—
NR18	1156	—	—	NR66	1187	—	—
NR22	1158	—	—	NR67	1280	ARH1	—
NR23	1159	—	—	NR68	587	—	—
NR26	1038	—	VR28	NR69	1103	—	VR103
NR27	1160	—	—	NR70	1124	ARP23	VR124
NR27A	1161	—	—	NR71	1129	—	—

ROYAL NAVY TYPES—Cont.

Type No.	CV	Army	R.A.F.	Type No.	CV	Army	R.A.F.
NR28	1019	—	VR19	NR72	1188	—	—
NR31	1037	AR17	VR37	NR73	1285	—	—
NR35	1163	—	—	NR74	1189	ATP35	—
NR37	1164	—	—	NR75	1190	—	—
NR38	1165	—	—	NR76	1191	—	—
NR39	1118	—	VR118	NR77	1286	—	—
NR41	1083	ARPI	VR83	NR78	581	—	—
NR42	1166	ARPI3	—	NR79	1192	ARP21	—
NR43	1167	AR5	—	NR80	1135	—	VR135
NR44	1168	—	—	NR81	1941	—	VR99
NR45	1169	—	—	NR82	1193	—	VT74
NR46	1170	—	—	NR83	1074	ARPI6	—
NR47	1040	—	VR40	NR84	1194	—	—
NR48	1055	—	VR55	NR85	1186	ARPI7	—
NR49	1056	AR21	VR56	NR86	1195	ARPI5	—
NR50	1171	—	—	NR87	1196	—	—
NR51	1172	—	—	NR88	1197	—	—
NR52	1173	—	—	NR94	1198	—	—
NR53	1174	—	—	NR95	1502	—	VR502
NR54	1175	—	—	NS1	1069	—	VS69
NS3	1200	—	—	NT65A	1240	—	—
NS4	1201	—	—	NT82	1246	—	—
NS5	1202	—	—	NU3	1064	AU3	VU64
NT17	1205	—	—	NU5	1261	—	—
NT18	1206	—	—	NU12	1264	AU1	—
NT20	1208	—	—	NU13	1265	—	—
NT36	1219	—	—	NU16	1072	AU6	VU72
NT37	1220	—	—	NU17	1039	AU3A	VU39
NT38A	1221	—	—	NU18	1113	AU4	VU113
NT39	1222	ARP75	—	NU20	1474	AU13	—
NT40	1223	AT75	—	NU31	1279	—	—
NT58	1288	—	—	NU33	1290	—	VU120
NT62	1237	—	VT62	NU34	1134	—	VU134

ROYAL AIR FORCE TYPES

Type No.	CV	Navy	Army	Type No.	CV	Navy	Army
VR18	1018	—	—	VT60	1060	—	—
VR19	1019	NR28	—	VT60A	1572	—	ATS25
VR20	1020	—	—	VT61	1061	—	—
VR21	1021	—	AR9	VT61A	1573	—	—
VR22	1022	—	—	VT62	1062	NT58	—
VR23	1023	—	—	VU64	1064	NU3	AU3
VR25	1025	—	AT35	VR65	1065	—	ARP36
VR27	1027	—	—	VR65A	1574	—	ARPI9
VR28	1028	—	—	VR66	1066	—	—
VU29	1029	—	—	VR67	1067	—	—
VR32	1032	—	AR16	VS68	1068	—	AW4
VR35	1035	—	—	VS69	1069	NSI	—
VR37	1037	NR31	AR17	VS70	1070	—	AW2
VR38	1038	NR26	—	VU71	1071	—	—
VU39	1039	NU17	AU3A	VU72	1072	NU16	AU6
VU39A	1569	—	—	VT73	1073	—	ARPI6
VR40	1040	NR47	—	VT74	1074	—	—
VR41	1041	—	—	VT75	1075	—	—
VR43	1043	—	—	VT75A	1576	—	—
VR44	1044	—	—	VT75B	1577	—	—
VT45	1045	—	—	VT76	1076	—	—
VR46	1046	—	—	V177	1077	—	AW6
VR47	1047	—	—	VR78	1078	—	ARD2
VR49	1049	—	—	VT80	1080	—	—
VT50	1050	—	—	VT81	1081	—	—
VT51	1051	—	—	VR82	1082	—	—
VT52	1052	—	—	VR83	1083	NR41	ARPI3
VR53	1053	—	ARP34	VT88	1088	—	—
VR54	1054	—	ARDD5	VR91	1091	—	ARP35
VR55	1055	NR48	AR21	VR91A	1578	—	—
VR56	1056	NR49	—	VR92	1092	—	—
VR57	1057	—	—	VR95	1095	—	—
VR59	1059	—	—	VR95A	1579	—	—

ROYAL AIR FORCE TYPES—Cont.

Type No.	CV	Navy	Army	Type No.	CV	Navy	Army
VT96	1096	—	—	VR122	1122	—	—
VR99	1099	—	—	VR123	1123	—	—
VR100	1100	—	—	VR124	1124	NR70	ARP23
VR101	1101	—	—	VR125	1125	—	—
VR102	1102	—	—	VR126	1126	—	—
VR103	1103	NR69	—	VT127	1127	—	—
VT104	1104	—	—	VG128	1128	NGT2	—
VR105	1105	—	—	VR129	1129	—	—
VR106	1106	—	ARP3	VR130	1130	—	—
VR107	1107	—	—	VUI33	1133	—	—
VR108	1108	—	—	VUI34	1134	NIJ34	—
VR109	1109	NR55	AR7	VR135	1135	—	—
VS110	1110	—	AW3	VR136	1136	—	—
VUI11	1111	—	AU5	VR137	1137	—	—
VUI13	1113	NU18	AU4	VT501	1501	—	—
VR116	1116	—	—	VR502	1502	—	—
VR117	1117	—	—	VR503	1503	—	—
VR118	1118	NR39	ARP1	VU505	1505	—	—
VR119	1119	—	—	VU508	1508	—	—
VUI20	1120	NU33	—	VT510	1510	—	—
VG121	1121	—	—				

Service Valve Equivalents

U.S. SIGNAL CORPS VALVES

V.T. No.	Commercial Equivalent	V.T. No.	Civilian Type	V.T. No.	Commercial Equivalent	V.T. No.	Civilian Type
4C	211	52	45	90	6H6	129	304TL
5	WE15A	54	34	91	6J7	131	125K7
7	WX12	55	865	92	6Q7	132	12K8Y
17	860	56	56	93	6B8	133	12SR7
19	861	57	57	94	615	134	12A6
22	204A	58	58	95	2A3	135	12J5GT
24	864	59	59	96	6N7	136	1625
25	10	60	850	97	5W4	137	1626
26	22	62	801A	98	6G5/6U5	138	1629
27	30	63	46	99	6F8G	139	VR150/30
28	24A	64	800	100A	807	141	WL531
29	27	65	6C5	101	837	143	805
30	01A	65G	6C6	103	6SQ7	144	813
31	31	66	6F6	104	12SQ7	145	523
33	33	67	30 (Special)	105	6SC7	146	IN5GT/G
34	207	68	6B7	106	803	147	1A7GT
35	35, 51	69	6D6	107	6V6	148	1D8GT
36	36, 36A	70	6F7	108	450TH	149	3A8GT
37	37, 37A	72	842	109	2051	150	6SA7
38	38, 38A	73	843	111	1802-P4, 58P4	151	6A8G
39A	869B	74	524	112	6AC7/1852	152	6K6GT
40	40	75	75	114	5T4	153	12C8
41	851	76	76	115	6L6	154	814-RK47
42A	872A	77	77	116	6SJ7	157	12SA7
43	845	78	78	117	6SK7	162	12SJ7
44	32	80	80	118	832	163	6C8G
45	45	83	83	119	879/2X2A	164	1619
46A	866A	84	84	120	954	165	1624
47	47	86	84/6Z4	121	955	167	6K8
48	41	86A	6K7	124	1A5GT/G	168A	6Y6G
49	39/44	87	6L7	125	1C5GT/G	169	12C8
50	50	88	6R7	126	6X5	170	1E5GT
51	841	89	89	128	1630	171	1R5

U.S. SIGNAL CORPS VALVES—Cont.

V.T. No.	Commercial Equivalent	V.T. No.	Civilian Type	V.T. No.	Commercial Equivalent	V.T. No.	Civilian Type
172	IS5	211	6SG7	195	1005	233	6SR7
173	IT4	212	958	197A	5Y3GT	234	HY114B
174	3S4	213A	6L5G	198A	6G6G	235	HY615, 705A, 8021
175	1613	214	12H6	199	6SS7	236	836
176	6AB7/1853	215	6E5	200	OC3/VR105	237	957
177	11LH4	216	816	201	25L6	238	956
178	11LC6	217	811	202	9002	241	7E5/1201A
179	11LN5	218	100TH	203	9003	243	7C4/1203A
182	3B7/1291	220	250TH, RK63, HK354E	204	3C24, HK24G	244	5U4G
183	IR4/1294	221	3Q5GT/G	205	6ST7	245	2050
184	OB3/VR90	222	884	206A	5V4G	246	918
185	3D6/1299	223	1H5GT/G	207	12AH7GT	247	6AG7
188	7E6	224	2C34, RK34	209	12SG7	250	EF50
189	7F7	225	307A	210	1S4	254	304TH
190	7H7	226	3EP1, 1806-PI	255	8021, 705A	269	717A
191	316A	228	8012A	259	829B	286	832A
192	7A4	229	6SL7GT	260	OA3, VR75	287	815
193	7C7	230	350A	264	3Q4	288	12SH7
194	7J7	231	6SN7GT	266	1616, 866JR, 2B26	289	12SL7GT
				268	12SC7		

Service Valve Equivalents

G.P.O.-C.V. REFERENCES

G.P.O. No.	CV No.	G.P.O. No.	CV No.	G.P.O. No.	CV No.	G.P.O. No.	CV No.
VT10	1610	VT60	1605	VT105	1673	VT140	1166
VT11	1611	VT61	1609	VT106	1674	VT142	1039
VT16	1607	VT62	1606	VT107	1675	VT143	1696
VT17	1608	VT65	1609	VT108	1676	VT144	1371
VT19	1612	VT66	1650	VT109	1677	VT145	243
VT21	1613	VT68	1651	VT110	1678	VT146	1625
VT24	1636	VT69	1652	VT111	1679	VT147	1697
VT25	1637	VT72	249	VT112	1680	VT148	1698
VT26	1600	VT73A	1653	VT113	1681	VT149	1343
VT27	1601	VT74	1654	VT114	1682	VT150	1699
VT31	1638	VT75	1655	VT115	1683	VT150A	1700
VT31B	1639	VT78	1656	VT116	1684	VT151	1701
VT32B	1640	VT79A	1657	VT116A	1685	VT152	1702
VT32D	1641	VT80A	1658	VT118A	1686	VT153	1703
VT33	1642	VT81	1659	VT118B	1687	VT154	1067
VT34	1614	VT82	1660	VT119	1169	VT155	1704
VT35	1615	VT85	1661	VT120	1688	VT156	1705
VT36	1602	VT86	1662	VT121A	1288	VT157	1706
VT37B	1643	VT87	1663	VT122	244	VT158	1707
VT37C	1644	VT88	1664	VT125	1689	VT159	1708
VT38	1645	VT89	1665	VT126	1690	VT160	1709
VT38A	1646	VT90	1732	VT127	1187	VT161	1710
VT40	1647	VT91	1038	VT127A	1691	VT162	1711
VT46	1616	VT92	1735	VT128	1692	VT163	1712
VT47	1603	VT93	1666	VT129	1732	VT164	1713
VT51	1617	VT94	1667	VT130	1621	VT165	1714
VT52	1025	VT95	1668	VT131	1168	VT166	1715
VT53	1604	VT98	1669	VT132	1694	VT167	1716
VT54	1618	VT100	1670	VT133	1695	VT168	1626
VT56	1648	VT100B	1670	VT136	1118	VT169	1717
VT57	25	VT102	1671	VT137	1081	VT170	1718
VT58	1619	VT103B	1672	VT138	1623	VT171	1719
VT59	1620	VT104	1040	VT139	399	VT177	1720

G.P.O.-C.V. REFERENCES—Cont.

G.P.O. No.	CV No.	G.P.O. No.	CV No.	G.P.O. No.	CV No.	G.P.O. No.	CV No.
VT178	1721	VT186	1726	VT194	587	VT201	1056
VT179	1722	VT187	1627	VT195	1863	VT202	1054
VT180	1053	VT188	1727	VT196	509	VT203	9
VT181	1052	VT189	1128	VT197	1629	VT204	18
VT182	1723	VT190	1728	VT198	1075	VT205	1630
VT183	1724	VT191	1628	VT199	124	VT206	1120
VT185	245	VT193	1100	VT200	1065	VT207	1091

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